

**JA**  
SINCE 1995



# COMPANY PROFILE



# COMPANY INTRODUCTION

Welcome to Jo-An Group Pte Ltd, a premier agent mandate specializing in the procurement and supply of high-quality fuel, oil & gas, minerals, stones, and a diverse range of equipment and related products. Our expertise also extends to delivering exceptional services in airport planning, construction project coordination, procurement & supply chain management, and comprehensive project management & consulting.

## MISSION STATEMENT

“ To deliver exceptional value to our clients by providing high-quality products and specialized services in our industry. ”

# VISION STATEMENT

To be a global leader in resource procurement, infrastructure development, and specialized services, recognized for our commitment to quality, innovation, and sustainable growth. We aim to set the standard in airport planning, construction management, and supply chain excellence, driving progress and creating lasting value for our clients and communities worldwide.

# VALUES



**Integrity**



**Excellence**



**Reliability**



**Innovation**



**Sustainability**



# OUR SERVICES

## **Fuel, Oil & Gas**

We facilitate the procurement and supply of petroleum products and natural gas, ensuring reliable and efficient delivery to meet the diverse needs of our clients.

## **Minerals & Stones**

Our extensive network allows us to source and supply a variety of minerals and stones, catering to the demands of various industries.

## **General Contracting**

We offer robust general contracting services including Project Management / Construction Management (PM-CM), managing construction projects

## **Equipment Supply**

We provide an extensive range of equipment and related products, ensuring that our clients have access to the best tools and machinery for their operations.



# SPECIALIZED SERVICES

## 1. Coordination of Management Projects

### ✓ **Project Planning:**

We assist in defining project scope, timelines, and resources, ensuring that all elements are in place for a successful start.

### ✓ **Project Management:**

Our team applies Project Management best industry practices to ensure successful delivery of projects of the highest Quality at the required Cost and within the prescribed Time

### ✓ **Stakeholder Management:**

We liaise between various parties involved, including contractors, suppliers, and clients, to ensure clear communication and efficient workflows.

### ✓ **Quality Control:**

We implement rigorous quality control measures throughout the project, ensuring that all work meets the highest standards.

### ✓ **Risk Management:**

We proactively identify potential risks and implement strategies to mitigate them, ensuring that your project remains on track.

## 2. Procurement & Supply Chain Management

### ✔ **Strategic Sourcing:**

We identify the best suppliers and negotiate favorable terms to ensure you receive high-quality materials at competitive prices.

### ✔ **Supply Chain Optimization:**

We analyze and streamline your supply chain, enhancing efficiency and reducing lead times to keep your project on schedule.

### ✔ **Logistics Management:**

We oversee the transportation and delivery of materials, ensuring they arrive at the right place and time, minimizing disruptions.

### ✔ **Inventory Management:**

We manage your inventory levels to prevent overstocking or stockouts, ensuring that your project has the materials it needs without unnecessary costs.

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# 3. Project Management & Consulting

## ✔ **Comprehensive Project Management:**

We handle all aspects of project management, including planning, execution, monitoring, and closing, ensuring that your project is completed on time, within budget, and to your satisfaction.

## ✔ **Consulting Services:**

Our experienced consultants provide strategic advice and practical solutions, helping you navigate complex challenges and make informed decisions.

## ✔ **Performance Monitoring:**

We implement systems to track project performance in real-time, allowing for adjustments and improvements as needed to keep your project on track.

## ✔ **Cost Management:**

We help you manage project costs effectively, ensuring that resources are allocated efficiently and that your project stays within budget.

## ✔ **Sustainability Consulting:**

We offer advice on incorporating sustainable practices into your projects, ensuring compliance with environmental regulations and enhancing your project's long-term viability.



# 4. Manpower Supply

## ✔ Skilled Workforce

Access to a pool of trained professionals across various industries, including construction, oil & gas, and manufacturing.



## ✔ Flexible Staffing Solutions:

Customized manpower solutions that adapt to your project timelines and requirements, ensuring you always have the necessary personnel.

## ✔ Compliance and Safety:

We ensure that all workers provided meet the relevant industry standards, certifications, and safety regulations, giving you peace of mind.

# CAPABILITY STATEMENT

**JV Jo-An & Partners  
in association  
with Airport  
Engineering  
Solution (AES) Ltd UK  
August 2024**



## INTRODUCING THE TEAM

We are pleased to introduce the extensive airport experience, wide-ranging expertise and skill sets that Jo-An & Partners propose in association with Airport Engineering Solutions (AES) Ltd UK. The key assembled members of this Team are Best in Class and provide a unique blend of aviation expertise build over the years, across the continents, covering Client/Contractor/Designer roles and successfully delivering challenging projects to the entire satisfaction of one and all. The A-Team covers the broad spectrum of aviation activities and functions which encompass Strategic Planning, Air Traffic forecasting, Master Planning, Full Design of Airside and Landside Infrastructure, Project Management, Construction Supervision & Management, Operations Readiness and Operations.

Our services range from major international airports to small regional feeder airports; from the highly sophisticated, making full use of all available technology, to the expedient making optimum use of available local resources. Our ethos lies in strong collaborative partnership with valued Clients with 'out of the box' solutions to address Client's needs.

# Air Traffic Forecasting

A major factor in airport planning is the forecasting of the air traffic movements in terms of passenger, aircraft and cargo that are likely to use the facilities provided. It is from this information that all planning and development stems. In this respect, Jo-An and its partners have carried out many projects and studies involving air traffic forecasting and the derivation of design criteria, in some instances with the aid of economists and environmental consultants.

The experience in analysing records of past traffic and air traffic control logs, together with consideration of the many factors that potentially affect future demand and realisation is extensive. Aircraft types, airline route structures, tourism and economic situations are among the most important of these.

Forecasting is not a precise science but extensive experience in applying traffic estimates to airport design, whether it be for passenger aircraft or other facilities, has identified where the limits of accuracy are critical and which are the vital relationships between traffic volumes and the provision of services.

## Airport Planning

Consequent to air traffic forecasts we have been engaged in the derivation of design criteria and the development of outline planning for airport development. These have ranged from extension or development at existing airports to the master planning of complete airports, including the resolution of the complexities of development of existing airports during continued operation.

Particular computer programmes have been developed to simulate passenger movements. In addition to work carried out within the UK, the staff have had extensive experience of airport planning in many countries of the world.



# Designs for Aircraft Pavements

The engineers from the Team have designed new runways and runway extensions, taxiways and aprons as well as the repair and upgrading of existing pavements. This has been carried out for all types of airports, from major international airports to those catering for general aviation. In the changing nature of the air transport industry designs always consider likely future developments in aircraft design.

Experience encompasses provision of all the associated lighting, electronic landing aids, pavement markings and signs, facilities required for aircraft handling, stand markings and illumination, and fixed ground facilities.

## Designs for Airport Buildings

The Team has been involved in major airport developments incorporating extensive systems for the safety and security of the travelling passengers and aircraft.

The firm has extensive experience in designing and co-ordinating the design and construction of all airport buildings, ranging from large terminal buildings, aircraft hangars, cargo buildings, fire and rescue stations and air traffic control towers and ATS buildings, to minor sub-stations and buildings associated with electronic landing aids.

In the changing nature of the air transport industry the designs always consider likely future developments in aircraft design.



## Overall Airport Design

We have the propensity to provide, either from the internal skill sets within Team or by associating with other specialists, and co-ordinate a design team capable of undertaking comprehensively a major airport project from the planning stage, through the development of the design, the preparation of contract documents, and supervision of the construction, to the commissioning and completion, including monitoring of costs through all construction stages and keeping the Client advised of project progress.

# Airport Asset Management

Our Team offers an extensive range of services for infrastructure asset management from routine inspections and assessments to complete maintenance management systems. Considering the importance of long-term sustainability, our Team strive to optimise the use of raw materials in the maintenance recommendations.

Our services include development of prioritised maintenance programmes based on inventory management and asset conditions for the cost-effective application of available funding. The organisation's expertise in aerodrome services has embraced the design of aeronautical ground lighting systems for many airports including the design of radio navigation aids and communications systems.

Such work has required a comprehensive knowledge of the requirements as defined by the International Civil Aviation Organisation, the United Kingdom Civil Aviation Authority and the United States Federal Aviation Administration as well as principles of manufacture and installation.

## Airport Electrical and Telecommunications Services



Total work has involved the planning and design of high voltage and low voltage electrical distribution; the provision of automatic emergency electricity generation providing both standby and uninterrupted facilities; aeronautical ground lighting up to and including Category III; apron flood lighting; en-route navigational aids; final approach and landing aids; secondary surveillance radar; air ground and mobile radio; telephones; air traffic desks and associated air traffic control equipment; and aeronautical fixed telecommunication services.

## Airport Drainage, Sewerage and Water Supply

The expertise of the Team on drainage, sewerage and water supply has been employed on many occasions for work on airport drainage and water supply systems.

# Environmental Impact Studies

We have been involved in environmental related studies and have carried out assignments relating to noise pollution, waste disposal and impact on surrounding natural area.

## Airport Building Engineering Services

Specific airport work has embraced the complete engineering services for airport control towers, terminal buildings and all types of special communication and navigational aid buildings. The particular problems associated with such areas as the aerodrome control rooms, approach control rooms and various special service areas are clearly recognised and the solutions we proposed take these into account.

The various works have involved boiler plant; air conditioning plant; hot and cold-water services; public health engineering; lighting and power installations including mains distribution; telephone installations of various sizes and complexity; fire detection; alarm and fire fighting systems; public address systems; flight information display systems; radio and television systems; and lighting protection. Other facilities such as moving walkways, escalators, lifts and airbridges are also covered.

## Supervision of Construction

The Team has the strength and depth for construction management and team members have been heavily involved in the provision of supervision of the quality of construction of airport projects.

## Other Aerodrome Services

Other aerodrome services embrace categorisation and specification of procedures for rescue and fire fighting facilities, together with ground communications and alarm requirements; airport meteorological services and arranged integration of these services into the national meteorological network; apron refuelling systems and Institutional Strengthening.

# Airport Road and Traffic Engineering

The experts within the Team are available whenever required to advise and assist with the highway and traffic engineering aspects of an airport project. We are proud to introduce our partner, Airport Engineering Solutions (AES) Ltd and the gist of this renowned UK company is depicted below.



Airport Engineering Solutions (AES) Ltd was established in 2010, originally delivering solutions in the field of Electrical design and installation of Airfield Ground Lighting both in the UK and overseas. The company's administrative office is based in Fareham, England and is currently engaged on work in the UK, North and West Africa and the West Indies.

In 2018, we expanded our skills database with a number of aviation specialist engineers from all sectors. We now provide end to end Aviation design solutions for Civil, MEP, Structural & Electrical design and installation.

AES Ltd has unparalleled expertise in the field of Electrical Installation work and specialises in Airfield Ground Lighting and associated applications both in the UK and overseas. AES Ltd has the resources and ability to carry out projects independently or in association with other parties as the circumstances of a particular project or situation dictates.

The company's strengths allow for a rapid, detailed and flexible approach to projects to provide a successful cost-effective solution on time. The delivery of quality work, safely, on time, and within budget, whilst constantly minimising the impact of its activities on the normal operational requirements of active airfields, airports and highways, are the prime objectives of the company.

# COMPANY CAPABILITIES

The continual and rapid growth in air transport means that airports need to accommodate increasing numbers of aircraft movements. AES Ltd offers the latest advice in operational planning and procurement practices as well as the most recent developments in construction materials and design techniques.

The team offer a holistic range of skills relating to infrastructure in the development of airports of all sizes and types, for a wide range of services, including airport planning and design, airfield geomatics, utility & drainage design, geometric and structural pavement design relevant to local and international standards. The team are experienced in carrying out airfield inspections, visual aids, pavement and structural surveys at both Civilian and Military airfields.

Our aviation team has considerable experience in airfield pavement inspections and investigation, using UK Defence Estates standards, and more recently, the US FAA Pavement Condition Index (PCI) method. Visual inspections of airfield pavements are undertaken by our experienced engineers with their extensive knowledge of the design, construction, performance and maintenance of airfield pavements and AGL systems.

Advice can be provided on short-term minor maintenance requirements together with predictions of medium-term and long-term major maintenance. Recommendations can be made as appropriate, including subgrade testing, non-destructive HWD, and ground radar. Analysis of test data is undertaken using our in-house back analysis software.

Through our regular and thorough inspection regime, our aim is to help our Clients move towards proactive maintenance by understanding the life and condition of existing assets rather than be governed by reactive maintenance which usually ends up increasing whole life costing as a result of unplanned works and budgeting.

AES operates in a number of industry-sectors and supports our Clients to deliver their projects in the most effective way. We have grown through successfully delivering challenging programmes, sharing in our Clients' successes and doing more work with successful Client companies. Our international experience enables us to bring cross industry, global knowledge to projects which in turn feed world class best practices geared to making our service predictable and enhance the value of your investment.

### **Our airfield planning capabilities encompass the following:**

- ✓ Airfield configuration planning to optimise the layout using UK CAA, ICAO, EASA, IATA and FAA standards and methodologies
- ✓ Optimisation of apron layouts and aircraft parking configurations in terms of flexibility and expandability to meet the requirements of current and future aircraft types and traffic mix
- ✓ Assessment and integration of airfield manoeuvring areas in terms of aircraft characteristics, jet blast and ground support equipment
- ✓ Planning and design of the terminal / airside interface

### **Airfield pavement structural design is undertaken using the following:**

- ✓ A guide to Airfield Pavement Design and Evaluation (DMG 27): UK Defence Infrastructure Organisation 2011
- ✓ Pavement Design guide for heavy aircraft loadings (BAA 1993)
- ✓ Airport Pavement Design & Evaluation (Federal Aviation Authority)

To develop innovative solutions, we also design from first principles, using Finite Element Analysis and Multi-Layered Elastic Analysis.

**3D Geometric design is carried out to the required regulatory standards of the appropriate licensing authorities. AES can also advise upon the development of pavement layouts and functionality in accordance with the following guidelines:**

- ✓ ICAO Annex 14
- ✓ UK CAA CAP 168
- ✓ FAA 150/530

**Our business solutions expertise encompasses a portfolio of activities that aims to support the development of airports and airlines across a wide range of business-critical areas. This group of services includes the following major work areas:**

- ✓ Due diligence
- ✓ Feasibility studies
- ✓ Regulatory consultancy
- ✓ Operational advice and audit
- ✓ Aviation safety and security



To support these skill areas, and provide the kind of solutions that are both strategic and achievable in outlook, AES Ltd has within its team:

- ✓ Airport and airline hands-on operations experience at major airports
- ✓ Major planning and technical skills
- ✓ Risk assessments and business continuity expertise
- ✓ Knowledge of the financial structuring of airports – linked to construction decisions
- ✓ Technical expertise – linked to airport operations and performance

## WHAT WE BRING TO THE PROJECT

**“Long term, Client focused solutions based on practical experience and innovation”**

We have provided design and/or site supervision services for terminal/runway/taxiway projects at International and UK Airports. Our strong ongoing involvement in airport infrastructure (including airside, landside, terminal design, construction management) continues to demonstrate expertise and experience in the industry.

One of the key tenet of the winning team Jo-An & Partners / AES UK is to delight our valued Clients and exceed their expectations. We endeavour to bring our best and most qualified team to serve our Clients as we bring a number of key attributes to them as follows:

### ▶▶ **Knowledge of Airports**

We have extensive and detailed knowledge of the aviation and airport industry worldwide. We understand the various challenges faced by Airport Authorities and have the required expertise in dealing with the complex airport environment exacerbated by local factors.

### ▶▶ **Global Engineering Expertise**

The Team has extensive experience in providing airport facilities, operations planning and asset maintenance expertise on tight schedules at airports around the world. We have undertaken design and supervision of a wide range of works including terminal, associated airport buildings, runway, taxiway, apron construction and rehabilitation, asset inspections in the UK, Middle East, Africa, South Pacific and most importantly, island airports.

## ▶▶ The Indonesia Unique Selling Point

Our globetrotting experts put us on distinct position in that we have been exposed to any situations and challenges taking into account various local factors and in particular island airports. This is a Unique Selling Point in that we will better understand the local challenges facing the Indonesian challenges. We are proposing a solid team composition who have successfully delivered airports of various sizes, shapes and forms. Moreover, through our local partners we have a very good insight of local logistics challenges and processes. We are keen to engage with locals and embark into a journey of knowledge transfer, which will prove instrumental and beneficial for future generation in Indonesia.

## ▶▶ Team Expertise

The Team has worked on a number of overseas projects thus have up to date knowledge of "Airports". We propose a "one-stop shop" for all airport engineering and construction advice with over 20 specialist consultants. Part of our value add to Clients is immediate accessibility to industry-leader advice on all aspects of airport design & construction development and best practices in airport development.

## ▶▶ Diverse Workforce

The Team brings its diverse workforce to this project with a multitude of Chartered Engineers with key experience and expertise in airports and aviation. Its industry-leading, multi-disciplinary in-house teams fully understand all the engineering aspects of airport design and construction.

## ▶▶ Understanding Client's Needs

The Team fully understands the key issues confronting airports worldwide and has resolved these issues collaboratively. We know what it takes to put a successful engineering solution together with significant internal and external stakeholders input. We understand the need for Clients working on tight project budgets and the need to come up with 'fit for purpose' solutions while delivering the project in time, of the highest quality and within the prescribed budget.

## ▶▶ Relationship Based Culture

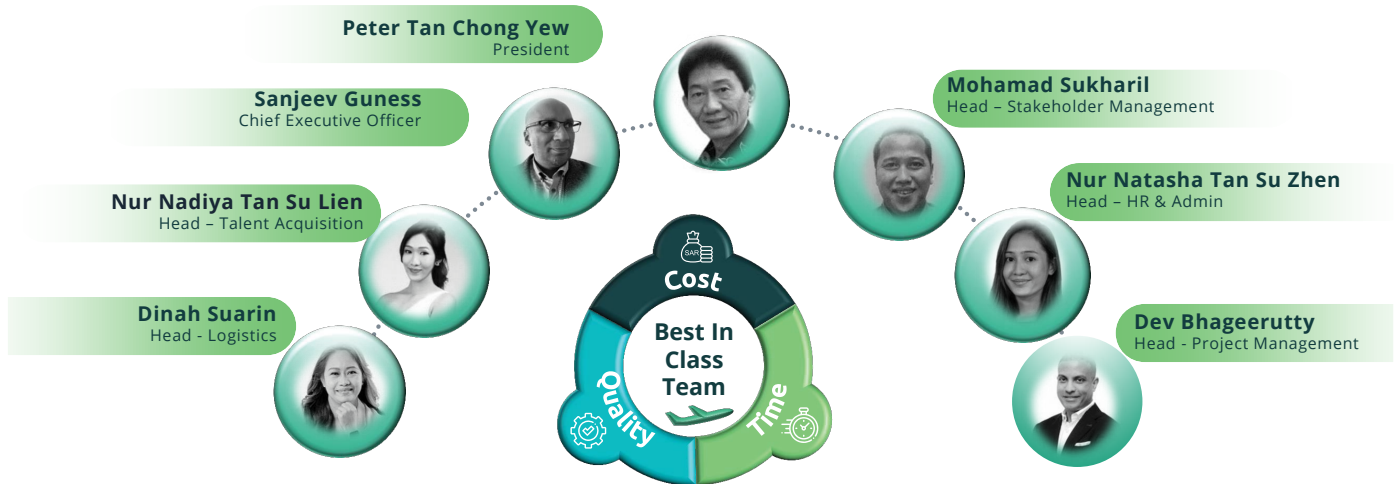
We have a Relationship Based culture and can bring substantial consultative and communication skills to dealing effectively and productively with third party stakeholders – Airport Operators, Airlines, border control agencies, Air Traffic Control, etc. We will build on the excellent relations established over the years to make this project a highly successful one.

The wide range of projects illustrated below demonstrate a number of important aspects of our expertise such as familiarity with all aspects of the planning, design, implementation and maintenance of airside infrastructure, detailed knowledge of the international airport arena with a wide knowledge of ICAO Annex 14 and international best practices and familiarity with Civil Aviation Authorities procedures and personnel and detailed knowledge of all aspects of airside infrastructure planning, engineering and asset management. The Practice has considerable experience at managing long-term airport working arrangements and commitment, a strong commitment to seeking innovative solutions and providing a value added service to clients and depth of capability and understanding to liaise effectively and productively with third parties such as Civil Aviation Authorities, Air Traffic Control, Airlines and Airport Engineering & Operations.



# MEET THE TEAM

## MANAGEMENT TEAM



## TECHNICAL TEAM



# SOME KEY TECHNICAL MEMBERS

Pen profiles of some key technical members are provided below and detailed CV (including for other Team Members) are provided at Appendix A



## Sanjeev Gunes

MBA, MSC Civ Eng, Btech (Hons) Civ Eng  
CEng, FICE, FCHIT, FIEM

**35+ years of total experience**

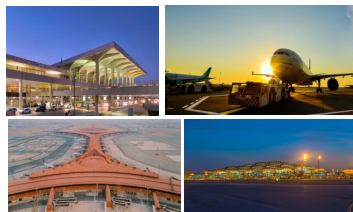
- Airport Management, Strategic Planning, Advisory, Master Planning, Design, Construction, Operations Readiness, Operations, Business Continuity and Emergency Preparedness
- Airside and Landside Infrastructure including airport systems and processes
- Contract, Commercials and Tender Management
- Peer Review / Expert Advice
- Statutory Requirements, Level of Service and Industry Best Practices
- Stakeholders' Engagement and Authority Approvals
- Airport Tariffs, Commercials (Aero and Non-Aero), CapEx/OpEx Strategies
- Governance Strategy and Probity Plan
- Expertise in Total Airport Delivery Solution



Red Sea International Airport - KSA



Amalaa International Airport - KSA



KSA Aviation Sector – Riyadh, Jeddah, Dammam, Cluster 2



Bugesera / Kigali - Rwanda



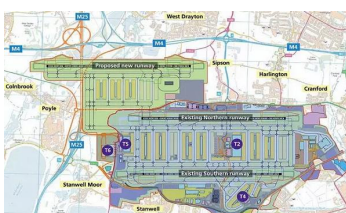
Kilimanjaro International Airport - Tanzania



Velana International Airport - Maldives



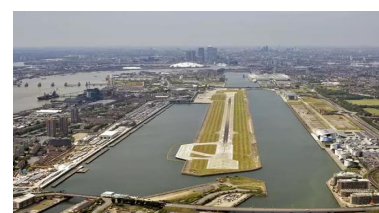
SSR International Airport - Mauritius



UK Aviation Sector - Airports Commission



Gatwick Airport - UK



London City Airport- UK

**Dr. Fari Shahbakhti** is an electrical and electronics engineer with 37+ years of experience in design and installation of electrical systems for various project types including aviation sector projects. He has extensive knowledge of AGL and Aviation operational systems for both civilian airports and military airfields. Dr Fari is a Fellow of the Institution of Electrical Engineers and has completed AGL design for the major airports including Heathrow, Gatwick, Bristol, Liverpool, London City, Carlisle, Luton, Stansted and a number of military airports in the UK and abroad. At present he is the lead AGL inspector for MOD inspections, which involves reviewing all AGL and visual aids and providing recommendations for rehabilitation and compliance. Responsible for full detailed design of Electrical installations and AGL design to CAT I, II & III & fully conversant with CAA, ICAO, EASA & MAA standards.

Conversant with latest British Standard regulations and international regulations such as ICAO, EASA and FAA. Specialist experience in control and monitoring systems with good knowledge of power infrastructure, including major plant plus HV and LV distribution. Regularly involved in inspections and commissioning of such equipment and installations.

Early experience includes design, management and maintenance of electrical wiring, alarms, camera systems, air conditioning and power plant at various establishments.

**Hanif Macci** is a Chartered Civil Engineer with more than 35 years' experience in aviation sector projects for both civilian airports and military airfields, in the UK and overseas, He is a specialist in Master Planning and land development planning for airports that meet or enhance the operator's business objectives with detailed knowledge of aerodrome regulatory requirements.

He has extensive technical knowledge in the evaluation, design and construction of airfield pavements, airfield services, and various airfield operational facilities such as air traffic control systems, aeronautical ground lighting, aircraft navigational aids, aviation fuel storage and hydrant refuel systems, and aircraft maintenance facilities.

**Nirupa Gumani** is a Chartered Civil Engineer with over 21 years of experience in the Aviation industry. She has a sound understanding for design, health and safety and quality procedures and a proven track record for the delivery of multi-disciplinary building and civil engineering related projects at airports, on time and within budget.

Nirupa has experience in both the UK and abroad and has been responsible for design co-ordination & project management between Multi Discipline teams of major airport projects as an Airfield designer, Design Manager, Project Manager & Project Director. Nirupa is responsible for the commercial aspects of all projects and involved throughout the project complete life cycle. Nirupa is currently Principal Pavement Inspector for the Biennial Inspections at a number of UK and overseas MOD airfields.

**Rolland Velho** is an award-winning architect with vast experience leading teams delivering significant Aviation projects within multi-disciplinary design practices and architectural studios. He was the Task Order 3.4 Lead for the Heathrow Expansion Masterplan leading the design of over 600 Airport Supporting Facilities. He led the Heathrow Cargo Strategy to double cargo capacity by 2035. He was the Technical Authority on a number of Aviation projects including the Heathrow Q6+ Security programme and led the peer review for the New Arrivals Terminal at Stansted International Airport. He also has led architectural designs for Airport across the Middle East and Africa. Rolland is passionate about digital innovation, lean design processes and an expert in Design for Manufacture and Assembly (DfMA).

## **APPENDIX A – DETAILED CVS**



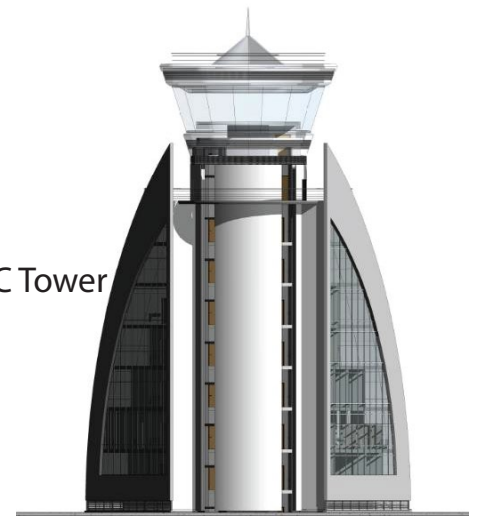
# AES - Strengths and Breadths

The Aviation Team of AES Ltd has an enviable track record of successfully delivering a considerable number of airport projects of different size and complexity and under various different types of contract forms and operational constraints. All projects were undertaken with key AES Ltd Staff Such projects include:



- ➔ London Heathrow Expansion Programme
- ➔ London Gatwick South Terminal Expansion
- ➔ London Stansted – New Arrivals Terminal, Peer Review
- ➔ King Abdulaziz Jeddah Airport, Saudi Arabia, New Passenger Terminal
- ➔ London City Airport (UK) – Capital Development Programme
- ➔ Rodrigues Airport – Masterplan and Preliminary Design for Runway Extension
- ➔ Rodrigues Airport – Options Study and Preliminary Design for a New Runway
- ➔ London City Airport – Work Package 2 and Work Package 3
- ➔ Kigali International Airport (Rwanda) – New Air Traffic Control Tower
- ➔ Kigali International Airport – New VIP Terminal
- ➔ Kigali International Airport – Passenger Apron Expansion
- ➔ Kigali International Airport – Runway CAT II Upgrade
- ➔ Muscat International Airport (Oman) – MC/2 Project including a new ATC Tower

- ➔ New Bugesera International Airport – Design for a new airport
- ➔ London Heathrow Airport – Bravo Taxiway project
- ➔ Oxford Airport – Widening and Upgrade of Runway 01-19
- ➔ London City Airport (UK) – Eastern Apron Expansion
- ➔ Isle of Man Airport – RESA and Runway Extension project
- ➔ Guernsey Island Airport – Upgrade of Airfield Pavements and associated infrastructure
- ➔ SSR International Airport (Mauritius) – New Apron and Code F Taxiway
- ➔ Hamad International Airport (Qatar) – Design Reviews
- ➔ Bristol International Airport (UK) – Runway and Taxiways Restoration project
- ➔ King Shaka International Airport, Durban (South Africa) – Masterplan for new airport
- ➔ La Seu Airport (Spain) – Assessments and Masterplan
- ➔ Exeter Airport
- ➔ London Luton Airport
- ➔ Delhi International Airport – Airport Development
- ➔ RAF Linton-on-Ouse – Runway Rehabilitation and new ATC Tower
- ➔ Shirdi Airport (India) – New Airport Development
- ➔ Development of Gulbarga Airport
- ➔ Development of Shimoga Airport
- ➔ Dubai International Airport – Northern Runway Rehabilitation
- ➔ RAF Waddington – Runway Resurfacing and AGL upgrade.
- ➔ Design Review, preparation of good for construction drawings for Rusizi Port facility under CEC design build contract.
- ➔ Design Review and optimization of Rubavu quay under CEC design build contract.
- ➔ Design of Edible oil factory and storage facilities +
- ➔ construction supervision for Roba Industries Ltd





## Sanjeev Guness

AVIATION & AIRPORT EXPERT

### Pen Profile

A Seasoned Aviation and Airport Expert holding nearly 35 years of experience of which half of this time has been spent in the capacity of a Client at Management/Executive levels. He is a Chartered Civil Engineer and holds an MSc, an MBA and has achieved the highest pinnacle of Engineering by securing Fellow status with the UK Institution of Civil Engineers.

Sanjeev has diverse aviation skill sets covering the various spectrum of airport master planning, airport management, strategy, operations, engineering, and emergency preparedness. He has been involved at strategic level driving the implementation of corporate objectives and governance, has led the production of business cases for project portfolio and has prioritized the execution of the projects to align with the strategic objectives and prevailing safety and security requirements. He is well versed on airport statutory safety and security requirements while he has been exposed to redefining service levels at airports. He has sound knowledge of the aviation industry, international best practices and is fully acquainted to the provisions of ICAO SARPs, UK CAPs, GACAR Provisions, EASA, and FAA Advisory Circulars. He has successfully delivered numerous multi-disciplinary airport projects from inception to completion, including Operations Readiness and Certification with the proactive involvement of major stakeholders. He has also been a change agent responsible for restructure of the project delivery teams and operations teams to meet the business and project needs.

Sanjeev has recently been heading the Technical & Engineering function of Matarat PMO and driving the harmonization process of Engineering Standards, procedures and processes. Before that, for the past 5 years Sanjeev has actively been involved in KSA and has been leading the USD 1 billion Airport program of the Red Sea regenerative tourism giga project. He was leading the PMC from the Client-side project directing the designers, specialist consultants, contractors and sub-contractors. He was instrumental at the inception stage to drive the master planning phase and optioneering including runway siting/orientation, and infrastructure planning and successfully getting endorsement by the regulator. He has been successfully driving the project delivery for airside and landside infrastructure as Senior Director, leading the concept, scheme design, & detailed design, making 'airport operator' decisions, driving the airport operations set up, and proposing changes to the regulatory regimes and Tariff regulations in KSA. He has been the Client Rep, instrumental in leading all design reviews and responsible for all end user requirements and overseeing the construction works and leading project execution and bringing projects to successful completion. He has successfully drafted and floated to the market Tender Documentation and appointed Design Consultants, Specialist Consultants, Contractors, Specialist Vendors, and the Airport Operator. He has been working closely and collaboratively with daai, RSI Airport Operator for nearly 4 years, to proactively formulate and implement Operational Readiness of RSI Airport. He played an active role in financial / project controls and led value engineering propositions in excess USD 75M for the landside infrastructure and over USD 15M for airside infrastructure. Other projects in his portfolio and which he has successfully been leading are Amaala Airport, Al Wahj Airport and Qunfudhah, all circa \$2 billion.

In summary, Sanjeev has been exposed to the world of Designers, PMC, PMO, Contractors and Client Representative on behalf of the Airport Operator and operated in Design-Bid-Build, Design and Build, O&M and PPP environments.

### Skills

Fast Learner & Adaptability

Working Under Pressure

Team Player

Leadership

Communication Skills

Microsoft Office

MS Power Point

MS Excel

MS Word,

MS Project,

Aconex

B360

Auto Cad

### Hobbies

Football, Cycling and Swimming

## Employment History

### Head of Technical & Engineering, Egis, KSA

Jan 2024 to date

- Driving the PMO strategic development and implementation of a uniform framework of management requirements for consistency and excellence in airports project delivery for Matarat
- Provide strategic support and oversight to Matarat through the lifecycle of the capital development programmes with the overarching goal of effectively implementing and realizing the objectives set as per KSA Aviation Strategy
- Develop and maintain guidelines, standards, and specifications, aligning with international and local codes and best practices, and ensure standardization across the Operating Companies (OpCos) i.e. RAC, JEDCO, DACO and Cluster 2
- Lead in achieving relevant International Accreditation for both Matarat Holding and OpCos
- Create a unified RFP template and review RFPs for critical projects
- Review & update Master Plan, CAPEX plans, Business Cases, where engineering topics are involved
- Provide support to vendor or contractor selection
- Provide advisory support including Technical, Financial & Value Engineering etc. to OpCos
- Leading a team of 8 technical experts.

### Senior / Executive Director - Airports at Red Sea Global, KSA

JUNE 2019 — NOVEMBER 2023

- PMC Lead from Client-side overseeing and managing the entire design and construction from inception to completion, including the planning, design, construction, and post-construction phases. Ensured that this mega project is executed efficiently, within budget, and according to the desired quality standards and exceeding industry norms.
- Managed a team of around 30 technical resources, 50 construction resources and 20 operations resources with 12 direct reporting.
- Implementation of corporate objectives by providing expert input onto the master plan including airport options and preferred siting, runway options and orientation, need for a dedicated seaplane airstrip, sizing and location of airport facilities, level of service to enhance passenger journey and innovation to promote the sustainability agenda.
- Core member of the management team to establish and implement project controls, project management plans, change management committees, safety in design, H&S during construction, environmental plans and tracking of project health and risk management.
- Involved in the formulation of project budgets (CapEx) and operational budgets (OpEx) and drafting of relevant KPIs to monitor financial performances.
- Driving the implementation of Facility management plan with focus on efficient FTEs, space planning, SMART technology, asset life cycle, maintenance regime, KPIs for BMS and energy management
- Achieved GACA dispensation for less onerous safety characteristics on Aerodrome Standards and Design

- Build Safety cases approved by GACA for non-removal of overground EHV power line near the airport. This resulted into a saving of circa SAR 150M.
- Directly involved in the recruitment of candidates with the required attributes for project implementation, delivery and operational readiness.
- Led Stakeholder management plans both internal and external to ensure active engagement of all concerned during project execution, defining of end user requirements and operational readiness
- Led and implemented the Airport Master Planning including future proofing and phasing of development plans in alignment with strategic objectives and demand requirements
- Drafted and floated to the market Consultancy Services, Design & Build tender documentation for Airside Package and Landside Package. Core member of the evaluation team to select the successful bidders.
- Drafted and floated to the market O&M Tender Documentation for RSI Airport Operator. Core member of the Evaluation Committee to select the successful bidder
- Successfully appointed Design Consultants, Contractors, Specialist Vendors and Airport Operator
- Led Value Engineering Exercise to optimize design and construction costs for the Main Terminal Building and Associated Infrastructure with a net saving of over SAR 400M
- Led and achieved the design for beyond industry norms for Level of Services (beyond IATA Overdesign – termed as 'Gold')
- Led and completed the Optioneering phases, Concept design, scheme design and detailed design for RSI Airport. This also included integration of all compliant operational elements into the design including fire response strategy
- All Designs successfully approved by the Regulator
- Acting as the Client Representative and defining End User Requirements. Leading all the operational requirements for inclusion in the design
- Together with daai, formulated a dedicated charging structure for RSI and coming with up with new commercial revenue streams/de-regulations of non-aeronautical charges
- Coordinated with daai for the development of safety/security/facilitation procedures for the aerodrome certification of the airport
- Drive stakeholders Interface management with other development program including Resorts, PPP, and mobility
- Driving the Operating costs strategy with optimization of resources required, cross utilization, multi-tasking and use of next generation systems/equipment
- Secured IATA code (RSI) and ICAO Code (OERS)
- Led and completed the Helicopter and Seaplane Designs/operations from airport to offshore resorts
- Providing key advise to Exec Mgt in formulating changes to KSA Aviation Regulatory Regime and Freedom of Access
- Peer Review/Ops Expert Advice of Amaala Airport, Al Wajh Airport and Qunfundha Airport
- Advise to Exec Mgt on the Air Service Development strategy and setting up of FBOs for seaplane, helicopters and GA operations
- Led Sustainable Aviation Fuel (SAF) Strategy for RSI

- Successfully negotiated, in association with the airport operator with potential airlines to service RSI
- Successfully, in association with the airport operator, appointed the Ground Handler, Fire Services provider, FM Services provider, Meteorological Services provider, Air Navigation Services Provider, and Fuel Operator
- Implementation of all operational, engineering, compliant, commercial and strategic KPIs for the airport and are integral to the O&M contractual provisions
- Initiating the implementation of a Digital Tower solution, the first of its kind in KSA
- Work closely with daai to strategize Operations Readiness. Formulated and implement a number of strategies – FTE, Accommodation, Equipment and Vehicles, Student Placement, Contingency Plans, Resource Mobilization

### **Divisional Director at Pell Frischmann, UK**

FEBRUARY 2018 — JUNE 2019

- PMC Lead for Client overseeing the construction of the apron and terminal works at London City Airport
- Providing Airport Ops Expert Advice to Client
- Develop new business and grow the Aviation team.
- Bid Lead – Mauritius, Rwanda, UK, India, Middle East
- Secured GBP 3.5 million of Consultancy Fees
- Provide airport sector specialism to Clients
- Carrying out sales and aviation business development actively in the UK and abroad
- Successful completed all projects in hand with a technical team of 8 and ensuring projects are designed and delivered technically correctly and on time, whilst maintaining the target profit level. Design successfully approved by Regulator
- Promoting cross-selling between the internal the disciplines and liaising with other units and contributed to wider billability
- Aviation Lead/Ops expert on the London City Airport's development plan which included expanding existing terminal facilities and creating new airfield infrastructure for a further 30,000 permitted flight movements. The new facilities will allow for up to 6.5 million passengers by 2025 whilst maintaining reliable and consistent service for current passengers. As Aviation Lead proactively delivered three work packages; Airfield Aviation Design, Stand Servicing and Lighting and Airfield Civil Works. The works include civil engineering, structural engineering, geotechnical engineering, aviation planning, drainage engineering, pavement engineering and AGL engineering.
- Provision of Operational advice and cost-effective solutions to Client. Value Engineering Achieved - circa GBP 15M

### **Aviation Director at TPS, UK**

MARCH 2017 — FEBRUARY 2018

- Providing Airport Ops Advice and cost-effective solutions to Clients
- Aviation Business Development – Development of 3 years Business Plan to increase aviation revenue stream through organic growth and business networks.
- Secured GBP 2M of consultancy fee from bids pitching
- Leading the Aviation team of 12 comprising of pavement engineers, airport planners, design managers, Aviation systems including FUEL and AGL, drainage engineers, aviation engineers and 3D modellers/CAD Technicians.
- Provide Airport sector expertise to Clients - London City Airport and Heathrow Airport
- Project Lead – LCY, MOD Projects, Glasgow, Rwanda, Rodrigues
- Bid Lead – Mauritius, Rwanda, UAE, Guernsey, MOD
- Responsibility for growing the aviation business, for ensuring technical accuracy, delivery and accuracy, provide expert advice on aviation matters related to planning, design, construction, and tender documentation.
- ICE SCE Mentor - Enabled 4 young engineers to successfully secure their chartership

### **Head of Aviation at Sir Frederick Snow and Partners, UK**

JANUARY 2015 — FEBRUARY 2017

- PMC Lead overseeing the construction works at Kilimanjaro Airport
- Providing Airport Ops Advice to Clients
- Airport Business Development - Involved in marketing strategy with Clients and actively promoting the corporate image to prospective clients using personal networks.
- Secured GBP 1.5M of consultancy services with Clients
- Actively involved in reviewing of internal systems, procedures, structures, enhancing QA & H&S and promoting organic growth through the creation of shareholder value.
- Leading the airports/civils teams of 12 and looking at the day-to-day management of the office.
- Provide Operational advice and sector expertise to Clients - Kilimanjaro Airport, Tonga Airport
- Bid Lead for airport opportunities worldwide – lead preparation of technical and financial bids – St Lucia, Tanzania, Kenya, Rwanda, Zanzibar, Iran, Nepal, Rodrigues, South Pacific, Bangladesh, Jordan, Uganda
- Project Lead and Interface Management – Design and Supervision of ATC Tower at Fua'amotu International Airport, Tonga
- Project Lead and Interface Management – Rehabilitation Works at Kilimanjaro International Airport. Detailed design of Terminal Building, Aprons, AGL, Taxiways and Runways with associated water and sewerage systems
- Mentor and SCE to ICE graduates and management of staff at all levels. Successfully enabled 3 students to secure their Chartership

## Technical Director at Jacobs, UK and India

JUNE 2007 — DECEMBER 2014

- PMC overseeing the construction works by the PPP Concessionaire (GMR) at Maldives Airport
- Airport Ops advice to Clients
- Pursued Business Development Opportunities in collaboration with the Executive Director
- Bid Manager – Maldives, Delhi, Mumbai, Philippines, Bengaluru
- Successfully secured GBP 5M of consultancy services and collaborated into securing an additional GBP 15M revenue by participating in bid pitch.
- Provide airport sector specialism to Clients
- Led a technical team of 23
- Project Manager for the Buckinghamshire County Council Framework. Had overall responsibility to project manage all tasks in the delivery of this commission, monitoring, reporting progress and financial reporting. Involved in highway design including diversion of services, coordination of deliverables from other disciplines including drainage, landscape, structures, archaeology, planning, TRO, lighting, pavement, earthworks, site investigation, cost estimates and CDMC.
- A key member of the Airports Commission work examining the need for additional UK airport capacity and how this can be met in the short, medium and long term. Technical/Operations lead for airport infrastructure, regulatory compliance and facilities planning. Pros and Cons of each airport were assessed, and costing exercise done for infrastructure development and provided key recommendations for the preferred airport to build additional runway capacity
- Provided expert advice on the Skylon Spacecraft program in French Guiana. Planning Lead for the feasibility study of a 5.6km runway for a spacecraft launch into low orbit earth and related airfield infrastructure and looking at the land use plan for the new Skylon facility at the Centre Spatial Guyanais (CSG) at Kourou, French Guiana
- Was involved in a due diligence study at London Luton Airport. Served as Business Plan Advisors to AXA on a potential acquisition of a concession in London Luton Airport currently with the Albertis Airports Portfolio. Led the capital expenditure element of the DD. Also produced the CapEx report for a similar DD for Belfast International Airport and Stockholm Skavsta Airport. Other due diligence studies include Malta and Budapest. Was also involved in a Technical Due Diligence study in India
- Successfully developed the Master Plan for Jamshedpur Airport (India) including ACAD concept drawings
- For 2 ½ years, has been the PMC Project Manager / Aviation Advisor for the rehabilitation, expansion, modernization, operation, and maintenance project at Ibrahim Nasir International Airport (INIA) in the Maldives (\$275M)
- As the Independent Engineer in Maldives via our India Office, successfully managed this multidisciplinary project with 15 specialists under my leadership, providing advice to the client and reviewing the work of other consultants/contractors. Led the review of (1) the level of service to be achieved in upgrading the existing terminal, (2) the operational effects of the ongoing work, (3) engineering designs and work plan, (4) conformance of the engineering design to the requirements of applicable codes and standards, (5) compliance with International Civil Aviation Organization (ICAO)

standards, and (6) inclusion of the minimum technical requirements. Has also been actively involved in operational advice of the airport and in due diligence/review works during the master planning, optioneering/scheme design and detailed design stages of the new terminal and during the capacity improvement works at the existing terminal and has advised the Client on asset conditions and replacement strategy.

- Pursued Business Development Opportunities in collaboration with the Director of Operations
- Provide sector specialism to Clients
- Project Lead of the Runway extension and Parallel Taxiway works in Mauritius
- Manager of Projects of some 75 live civil engineering projects with the airports team and monitoring billability

### **Director of Operations / COO at Airports of Mauritius, Mauritius**

AUGUST 1999 — JUNE 2007

Responsible for the day to day running of the Airport - Airfield Operation, Terminal Operations, Aviation Security and Rescue & Fire Fighting services with some 250 staff and responsible for coordination and planning of major airport infrastructure projects. Chairperson of Crisis Committee, Safety and Security Committees. Acting as Client Representative and deputizing for CEO as and when required. Key role in the developing of the airport strategy including restructure of the organization, attracting airlines, position papers to Government, revamping aeronautical charges and coming up with new commercial revenues.

#### Key Airport Operations Experience

- Lead business change management programs to ensure that AML's processes, people skills and systems deliver the expected benefits to the business.
- Provide a quality level of service tailored towards customer service excellence to all airport business partners.
- Day to day management of airfield operations, terminal operations including landside operations, AVSEC and Rescue and Fire Services
- Lead and motivate the Operations Management team and Operations Staff to ensure that safety, security, facilitation, emergency preparedness are all in compliance with established norms, standards, regulations, laws and international best practices.
- Formulate, implement, and maintain a state of readiness for any safety/security emergencies (including natural calamities) at the airport.
- Deliver the Operations Management Target Settings and produced detailed Operations Budget for each business unit taking into consideration risk assessment procedures.
- Review and advise on operational capacity to match future growth demand.
- Re-engineer operational processes at the airport with a view to managing increase in passenger traffic and aircraft movement
- Secured the license to operate the airport on 3 yearly-basis. Custodian of the Aerodrome License and ensured the implementation of airfield standards in accordance with ICAO requirements and responsible for ensuring that the airport operator meets its legal obligations towards its Aerodrome License

- As a Change Agent, lead the change management process in the Operations Department with reviews of the organization structures in year 2000 & year 2006 and in the review of position descriptions for personnel of RFFS, Airfield Operations, Terminal including landside and Security
- Establish and implement a Safety Management System for the airport
- Chair and maintained Airside Safety Committees, Airport Facilitation Committees, Slots Allocation meetings, Cyclone Committees, Emergency Planning meetings, SHE meetings and deputizing for CEO in Airport Security Committees at SSR International Airport
- Promote Safety & Security Awareness Campaign at the airport through training and assessment of staff, issue of pamphlets/manuals/procedures and display on Flight Information Display Systems
- Lead and manage Occupational Safety and Health issues for the company
- Establish & Implement a Risk Management Procedures with the identification, assessment, and mitigation of risks likely to affect business continuity
- Implement and maintain safety/security procedures/manuals for effectively maintaining a safe aerodrome environment and aviation security level to the highest norms and in compliance with ICAO Standards & Recommended Practices

#### Key Airports Civil Engineering Experience

Sanjeev has had significant involvement in contract documentation and management of airport civil/building construction projects while advising on minimization of operational disruptions. He has represented the Client on all major airside projects and main liaison with Civil Aviation Authority, border control agencies, airlines, local authorities and other airport stakeholders. Responsible for ensuring that execution of works complies with all statutory safety, health and security requirements. He successfully completed the projects mentioned below and led a team of some 10 dedicated airport personnel in the smooth running of every airside project which includes:

- Construction of Corporate/General Aviation facilities
- Supply, Installation and Commissioning of 5 nos. new Passenger Boarding Bridges
- Apron Repairs Work airside
- Construction of Additional Aircraft Parking Stands
- Access Control/Video Surveillance Systems
- Assisting in managing Phase 1 of the Passenger Terminal Development works
- Developing Client's brief for Passenger Terminal Phase II Development Program
- Providing safety, security and operational guidelines for the Airport Road Diversion project and the construction of a new Airport Sewerage Treatment plant

## Education

**MBA, Management College of Southern Africa, South Africa**

JUNE 2004 — JUNE 2006 (First Class)

**D. Mgt, Management College of Southern Africa, South Africa**

JUNE 2004 — JUNE 2005 (First Class)

**MSc Civil Engineering, Queen's University, UK**

SEPTEMBER 1995 — SEPTEMBER 1996 (Upper Second Class)

**BTech (Hons) in Civil Engineering, University of Mauritius, Mauritius**

JUNE 1988 — JUNE 1992 (Upper Second Class)

## Professional Accreditation

**Fellow of the Chartered Institution of Highways and Transportation (FCIHT), UK**

2017

**Fellow of the Institution of Civil Engineers (FICE), UK**

2010

**Fellow of the Institution of Engineers (FIEM), Mauritius**

2010

**Chartered Engineer (CEng), Engineering Council, UK**

2009

## Some Specialist Airport Courses

**Successful completion of following Courses – ICAO, IATA, ACI, BAA, SAA**

- Engineering Modern Airports – UK
- Airport and Airline Strategy – South Africa
- Management of Aviation Security – IATA South Africa
- Airport Strategy & Development – ACI, Kenya
- Bulk Fuel Installation – SAA, Singapore
- Airside Safety – South Africa
- Safety Oversight Management – SAA, Singapore
- Security and Facilitation – ICAO, Mauritius
- Airport and Route Facility Management – ICAO, Egypt
- Aviation Security Crisis Management – ICAO, South Africa
- Advanced Operations Course – BAA, UK
- Incident Command and Control – SAA, Singapore
- Airport Disaster Management – South Africa
- Fire Protection and Risk Management – SAA, Singapore



# Dr Fariborz Shahbakhti, CEng, MICE, FIET

## Director

### Key skills

Visual Aid Inspections  
Military Aviation Regulations  
AGL & Aviation Systems

### Years of experience

37

### Education

- BSc in hardware and software Computer Systems 1980
- DipTech in Instrumentation and Control Systems, 1981
- MSc in Magnetic Control Systems, 1985
- PhD in Power Measurement Systems, 1989



### Registrations/Certifications

Chartered Engineer (MICE)  
Fellow of Institution of  
Electrical Engineering &  
Technology (FIET)

### Professional affiliations

Chartered Engineer (MICE)  
Fellow (FIET)

### Language skills

English

### Security clearance level

Security LevelSC (WWW  
Pass)

### Nationality

British

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Dr Fariborz is an electrical and electronics engineer with 37+ years of experience in design and installation of electrical systems for airports. Specialist experience in control and monitoring systems with excellent knowledge of power infrastructure, including major plant plus HV and LV distribution. Regularly involved in inspections and commissioning of such equipment and installations.

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## Professional history

During his career, Dr Fariborz has been involved in numerous R&D as well as innovation projects including addressable power distribution, magnetic crack detection in nuclear reactors, magnetic field measurement and high current measurements.

Conversant with latest British Standard regulations and International regulations such as ICAO, EASA and FAA. Specialist experience in control and monitoring systems with good knowledge of power infrastructure, including major plant plus HV and LV distribution. Regularly involved in inspections and commissioning of such equipment and installations.

## Selected project experience

### Defence Infrastructure Organisation, Biennial Airfield Inspection Programme (Visual Aid Principal Inspector)

May 2019 to Present:

MoD Airfield Inspections – Responsible for the inspection of AGL and electrical systems on MoD airfields. Key duties involves assessments for regulatory compliance and development of maintenance requirements for AGL and associated electrical installations to enable each airfield to continue operating safely. Currently lead AGL / Electrical Principal Inspector for the next 4 years' Biennial Inspections.

### Runway Extension, Plaine Corail Airport, Rodrigues, ARL / AML (AGL Lead Designer / Reviewer) June 2021-

Present: AGL & Electrical Design Lead for Rodrigues Airport expansion. Design to CAT 1 approach. Provision of Sub station, airfield lighting, & all related electrical works.

**CADP Project, London City Airport (Aviation System Lead) – May 2018 – June 2021:**

Aviation System Lead to deliver work packages comprising of Airfield Ground Lighting Design, Stand Servicing and Lighting and Airfield electrical and communication Works. The works also include civil engineering, aviation planning, drainage engineering, pavement engineering and AGL engineering.

**Kigali International Airport (Rwanda) (M&E Team Leader),** New ATC, VIP Terminal and Northern Apron Expansion. Design of all the building electrical and mechanical services for the new air traffic control tower and the new VIP terminal. Aviation systems design included new AGL and apron flood lighting for the northern apron expansion and the VIP apron plus FEGP and hydrant refuelling system.

**Kigali International Airport (Rwanda), Runway Upgrade to CAT II** – Responsible for technical assessments followed by detail design to provide CAT II operational capability. The scope of work involved design of new runway lighting and new approach systems including all the runway and taxiway signage and upgrade of the control and monitoring system.

**RAF Waddington, Runway Upgrade** – Consultant for the contractor providing technical advise on design and installation of the new AGL system as part of the runway upgrade works.

**RAF St. Athan, New Electrical Sub-station** – Detail design and construction support for the new electrical sub-station to replace the existing.

**RAF Benson, Re-alignment of Taxiway** – Detail design of electrical works associated with taxiway re-alignment including AGL, taxiway signage and traffic lights.

**RAF Northolt, Engineered RESA and Runway Restoration** – Provided AGL design services to one of the prospective bidders as part of his tender design submission.

**Nigeria Airports, New AGL and Control Systems** – Commissioned by Federal Airports Authority of Nigeria (FAAN) to provide electrical design services for the installation of AGL and AGL Control Systems for 16 regional airports and military airfields including Port Harcourt, Abuja, Akure, Benin, Enugu, Jilingo, Kaduna, Kastina and Owerri.

**Malta International Airport, Provision of New PAPIs** – Design and installation of new precision approach path indicators (PAPIs) for both the runway approaches on each side.

**Piarco International Airport (Trinidad), Runway and Taxiway Upgrade** – Reviewed the design for the installation of new AGL associated with runway and taxiway upgrade works. Responsible for supervision of the installation works including testing and commissioning.

**ANRR International Airport (Tobago), Runway and Taxiway Upgrade** – Reviewed the design for the installation of new AGL associated with runway and taxiway upgrade works. Responsible for supervision of the installation works including testing and commissioning.

**Colombia Cucuta International Airport (Colombia)** – Design and installation of new LED precision approach path indicators (PAPIs) for the runway approach 16.

**Tanzania Airports, New AGL and Control Systems** – Surveyed and design for new AGL associated with runway and taxiway upgrade works for Tanzania Aviation Authority to provide electrical design services for the installation of AGL and AGL Control Systems for 3 regional airports.

**Kenana Airport (South Sudan), Runway and Taxiway Upgrade** – Reviewed the design for the installation of new AGL associated with runway and taxiway upgrade works.

**Waterford Airport (Ireland), AGL control and monitoring system** – Design, installation and commissioning of new AGL control & monitoring systems in Waterford

**Swaziland International Airport, New AGL and Control Systems** – Design, specification and installation of AGL, signage, AGL control & monitoring systems of Swaziland International Airport.

**Plymouth Airport, Runway and Taxiway Upgrade** – Design, specification, installation and commissioning of AGL, signage, AGL control & monitoring systems of Plymouth Airport.

**Basra International Airport, Runway and Taxiway Upgrade** – Commissioned by RAF to provide electrical design services, Installation, Commissioning for the AGL, AGL Control Systems, taxiway routing systems, LVP route, power supply and substations design at Basra International

# Hanif Macci, CEng, MICE

## Director

### Key skills

Pavement Condition Inspections  
Military Aviation Regulations  
Technical Review

### Years of experience

34

### Education

BSc (Hons) Civil Engineering

### Registrations/Certifications

Chartered Engineer (ICE)

### Professional affiliations

Chartered Engineer (MICE)  
Member of the Institution of  
Highways & Transportation,  
MIHT

### Language skills

English



### Security clearance level

Security Level SC (WWW Pass)

### Nationality

British

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Hanif has more than 30 years' experience in aviation sector projects for both civilian airports and military airfields, in the UK and overseas, He is a specialist in master planning and land development planning for airport that meet or enhance the operator's business objectives with detailed knowledge of aerodrome regulatory requirements.

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## Professional history

Hanif has extensive technical knowledge in the evaluation, design and construction of airfield pavements, airfield services, and various airfield operational facilities such as air traffic control systems, aeronautical ground lighting, aircraft navigational aids, aviation fuel storage and hydrant refuel systems, and aircraft maintenance facilities. Specialist in planning and design of construction sequences within active airport environment that enable further development and any rehabilitation works to progress whilst the airport remains operational with minimal disruption to its day-to-day business.

## Selected project experience

**Defence Infrastructure Organisation, Biennial Airfield Inspection Programme (Project Manager, Principal Pavement Inspector)** – May 2019 to Present:

Team Leader for the inspection of Airfield Operational Surfaces and Visual Aids at a total of 17 (FY 2019/2020) airfields for the RAF and RNAs. The assignment involves assessments for pavement condition including runway friction plus regulatory compliance and development of maintenance programmes so that each airfield can continue to operate safely to enable it to meet its mission objectives. Pavement inspection for the FY2021/2022 Biennial Inspections for 13 stations.

**Biggin Hill Airport, New Hangar Development** – Technical Advisor to the client for the development of a new aircraft maintenance facility for Bombardier, including review of contractor's design followed by compliance and monitoring of the works during the construction stage.

**London City Airport's Development (CADP)** – Oversee and review the preparation of detail design in three work packages; Airfield Aviation Design, Stand Servicing and Lighting, and Airfield Infrastructure Works. The works include civil engineering, structural engineering, geotechnical engineering, aviation planning, drainage engineering, pavement engineering and AGL engineering.

**Rodrigues Airport (Mauritius), Masterplan and Runway Extension** – Hanif is overseeing the design & the reviewing the masterplanning and technical assessments airport expansion The project includes full technical assessments of all the existing airport facilities including expansion of the passenger terminal, main passenger apron plus design of a new runway.

**Kigali International Airport (Rwanda), Masterplan** – Hanif was responsible for undertaking the review of the airport's business and operational requirements over the next 10-year planning horizon and prepared a master plan for developments that would cater for these needs including aircraft maintenance and overhaul (MRO) facilities.

**Kigali International Airport (Rwanda), New ATC, VIP Terminal and Northern Apron Expansion** – Major project to undertake detailed design and preparation of tender documents for re-location of the air traffic control tower and VIP terminal to facilitate the expansion of the northern apron as determined by the masterplan. The apron expansion is to enable the airport to support the continuing growth of the national airline as well as provide suitable facilities to its existing and potential new customers.

**Kigali International Airport (Rwanda), Airfield Infrastructure Improvements** – Hanif was responsible for undertaking: design reviews, design updates and site supervision for the construction of new northern taxiway and southern apron with associated taxiways to provide parking stands for 12 Code C aircraft.

**Selebi Phikwe Airport, (Botswana), Feasibility Study for Airport Improvements** - Technical Assessments of all the airport's existing infrastructure and operational facilities for ICAO compliance with recommendations for improvements and a Master Plan for future development to cater for the forecast increases in passenger numbers and air transport movements.

**Dubai International Airport, Dubai (U.A.E.), Airfield Development** - Technical and specialist advisory services to the airport development team in support of the SP2020 airfield development programme involving planning of new holding positions to improve the operational capacity of the taxiway system and the construction of new End About Taxiway, Rapid Exit Taxiways and new aircraft parking stands.

**Dubai International Airport, Dubai (U.A.E.), Northern Runway Rehabilitation** - Team Leader for a comprehensive design review of a fast-track project designed by others. Produced a number of value engineering recommendations to reduce the risk on project programme.

**Al Ain Airport, Abu Dhabi (U.A.E.), Ammroc Project - Technical advisor** responsible for the preparation of design and technical methodologies for the contractor to support his 3-stage protracted tender for a project to develop aircraft maintenance and overhaul facilities as a separate enclave on this airport. The project included a new taxiway to provide runway access together with aircraft hangars, a large hangar apron, engine test cells, a whirl stand, engine run-up enclosure, and a compass calibration pad.

**UK MoD, Regional Prime Contract Central, Design Services for Airfield Works** - Specialist advisory and design services for airfield works under a regional prime contract. To- date commissions have included design and construction support for runway works at RAF Valley and RAF Linton-on-Ouse, aprons and taxiway works at RAF Valley and RAF Shawbury.

**MoD Term Commission, Advisory Services for Airfield Works** - Management of the new 3-year term commission (extended for another year) for advisory services which included evaluation, testing, research, appraisals, feasibility and outline design including option studies and cost estimates for the maintenance of all the MoD's airfields. The term commission renewed for another 5 years in 2004.

**Bugesera International Airport, Kigali (Rwanda), Master Plan and Detail Design for New Airport Development** – Hanif was responsible for leading a large multi-disciplinary team, both in-house and external, for master plan and detail design of a new airport on a green field site in the Bugesera district south of Kigali. The commission includes design of all the facilities to cater for 1.5mppa including all the operational infrastructure up to tender stage and assist the client in tender evaluation for award of the construction contract. The airport is destined to become the new gateway to Rwanda.



# Mohamed Hassan

Lead Civil Engineer

Airport | Highway | Railway

## EDUCATION

### BSc. / CIVIL ENGINEERING

Highways and Airport Graduation Project (Excellent)  
Cairo University, Egypt  
2009 - 2014

## VALID VISAS

**KSA:** Visit Visa – Multiple Entries

## KEY SKILLS

Autodesk AutoCAD  
Autodesk Civil 3D  
Autodesk InRoads  
Autodesk Navisworks  
Autoturn  
Adobe Indesign  
Microsoft Office  
AviPLAN Airside Pro

## LANGUAGES

Arabic: Mother Tongue  
English: Professional Working Proficiency

## VACCINATION

Vaccinated with AstraZeneca  
COVID-19 vaccine doses provided by The Egyptian Ministry of Health

## CERTIFICATION

Egyptian Engineers Syndicate  
Federation of Arab Engineers

## CAREER SUMMARY

Lead civil engineer with vast experience in design and consultancy of mega transportation projects in the Middle East, Africa and GCC region.

Solid knowledge of airport, road, and rail design. Hands-on experience in preparing as well as leading teams to deliver pre-concept up to good for construction drawings, tender documents, technical reports and specifications, construction cost estimate and priced bill of quantities, design review and validation, detailed and high-level presentations, leading coordination among different engineering disciplines, stakeholder management and client engagement. Experience in project proposal documents preparation.

Demonstrated knowledge in local and international design standards supported with computer-aided design software.

## PROFESSIONAL EXPERIENCE

### Egis (July 2023 – Present), Riyadh

Senior Civil Airport Engineer, Project Management Office (PMO)

### Dar Al Handasah Shair and Partners (February 2015 – July 2023), Cairo

Lead Civil Engineer (Airport, Highways, and Railways)

### Bonah Developments (August 2014 – January 2015), Cairo

Construction Project Engineer

## PROFESSIONAL AFFILIATIONS AND ACTIVITIES

### Aviation Fundamentals

University of Waterloo, Ontario, Canada and International Civil Aviation Organization (ICAO).

### Private Financing for Infrastructure And Sustainable Growth

Asian Development Bank.

### Project Management for Beginners

Project Management Institute.

### Railway Engineering

Delft University, Delft, Netherlands.

### Urban Rail Development

World Bank Group.

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## MAIN REFERENCES

### AIRPORT PROJECTS AND EXPERIENCE

AL MAKTOUM INTERNATIONAL AIRPORT (DWC), DUBAI, UAE

DUBAI INTERNATIONAL AIRPORT (DXB), DUBAI, UAE

PROJECT MANAGEMENT OFFICE – MATART HOLDING, KSA

NEOM BAY AIRPORT EXPANSION (NUM), NEOM, KSA

NEW BUGESERA INTERNATIONAL AIRPORT (NBIA), RWANDA

ENTEBBE INTERNATIONAL AIRPORT EXPANSION (EBB), ENTEBBE, RWANDA

#### Role Covers:

- Develop the new technical and engineering standards of airports across KSA.
- Technical support for 25+ airports across KSA under Matarat holding umbrella and its subsidiaries.
- Geometric design for airfield elements (i.e. runways, taxiways, aprons, aircraft stands, airside and landside roads).
- Upgrade and rehabilitation of the existing runways in addition to the connecting taxiways. Works are including but not limited to pavement and overlay, markings updates, signings relocation to be cleared from jet blast zones and applying ICAO reduced clearances.
- Upgrade of aprons from remote stands to contact stands with passenger loading bridges (PLB) connection with terminals. Works are including but not limited to markings, signing and pavement.
- PAPI relocation including calculations for the new positions and protection with humps and de-lethalization of foundations.
- GSE airside roads realignment and check against aircraft jet blast in addition to landside roads and car parks.
- Preparation of compatibility report for market new aircraft. Compatibility included aircraft ground services check, fueling assessment, passenger loading bridges (PLB) slopes check, check versus existing fleet stop lines and determine the need for new aircraft stop positions, and (VDGS) assessment.
- Feasibility study of new Automated People Mover (APM) that included study the challenges of connecting concourses through bridges crossing taxiways and check versus OLS and critical aircraft vertical clearance.
- Leading different disciplines and ensures coordinated design delivery.
- Preliminary site grading for the whole project area considering tunnels, buildings foundations, and other assets in addition to bill of quantities and early estimate of pavement quantities.
- Utilities disposition and corridor reservations to for both wet and dry utilities at pre-design stages.
- Preparing design drawings including plans, profiles, typical cross sections, pavement sections, construction details, signing & marking, grading plans, and multi-disciplinary utilities plans.
- Preparing wide range of reports including design reports, compliance statement reports, jet blast assessment report (using AviPLAN), aircraft stands reports.
- BIM models preparation for airfield elements (pavement surfaces, signs and markings) in addition to compiling all project models.
- Support facility buildings planning (i.e. fuel farm, electric substations, etc.) and check against obstacle limitation surfaces (OLS).
- Navigational aids, passenger loading bridges compatibility check with aircraft fleet-mix.
- Design review and validation on packages issued by other team members or external parties.
- Helipad design complying with ICAO and GACA in addition to accessibility, and fire & life safety requirements.
- Helipad certification process in coordination with the certification sub-consultant.

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## **HIGHWAY AND ROADS PROJECTS AND EXPERIENCE**

### **20+ HIGHWAYS AND ROADS PROJECTS IN KSA, UAE, QATAR, EGYPT, NIGERIA, ANGOLA, UGANDA**

#### **Role Covers:**

- Network planning and geometry design including horizontal, vertical, and cross section.
- Grading and earthworks considering drainage design.
- Signing and marking and basic knowledge of traffic signals.
- Car parking design including on-street, off-street and multi-story.
- Traffic diversion and vehicle manoeuvre check at both horizontal and vertical aspects.
- Bill of quantities.
- Basic traffic calculations and bus, tram stations planning.
- BIM management in roads discipline including clash detection and coordination with other disciplines.
- Utility tunnel route selection, options for cross sections that accommodate different types of dry and wet utilities.
- Contractor support during daily site activities.
- Leading different disciplines and ensures coordinated design delivery.

## **RAILWAY PROJECTS AND EXPERIENCE**

### **RIYADH METRO PHASE 2 FEASIBILITY AND DESIGN, RIYADH, KSA**

### **RIYADH TO QIDDIYA TRANSPORT FEASIBILITY STUDY (Q-EXPRESS), RIYADH, KSA**

### **ETIHAD RAIL (PACKAGE 3C), UAE**

#### **Role Covers:**

- Leading stations, structural, excavation, tunnelling fire and life safety and MEP teams to meet project deadlines and review project deliverables and reports.
- Rail corridor selection and coordination with different stakeholders for the future and ongoing
- Preparing feasibility study and tender documents including massive reports that will be issued for the Design-Build Contractors.
- Worked closely with different parties at client's office and conducted many site visits to the under-construction Metro Phase 1 stations.
- Worked closely to the decision makers and prepared the presentation for His Royal Highness to get approval on the project budget.
- Route alignment evaluation study through multi-criteria analysis (MCA) based on cost, connectivity, impact on environment, impact on city utilities and urban integration.
- Stations integration with different modes of transport and grand mobility hubs.

## **NOTABLE PROJECTS PROPOSALS**

### **KING SALMAN BAY - AL ULA WASTE MANEGEMNT - NEOM GOLF OF AQABA**

#### **Role Covers:**

- Preparing technical and commercial proposal meeting RFPs requirements and budget estimate for transportation scope of works including roads, heliports, and sea mobility.
- Coordination with sub-consultants for their scope and estimate.
- Preparation of deployment schedules of participating team members over the project phases.

# Nirupa Gumani, CEng, MICE

## Director

### Key skills

Pavement Condition Inspections  
Military Aviation Regulations  
Project Management –

### Years of experience

21

### Education

BSc (Hons) Civil Engineering  
APMP (IMPA Level D)

### Registrations/Certifications

Chartered Engineer (ICE)

### Professional affiliations

Chartered Engineer (MICE)

### Language skills

English

### Security clearance level

Security Level SC (WWW Pass)

### Nationality

British




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Nirupa is a Chartered Civil Engineer with over 22 years' experience in the Aviation industry. She has a sound understanding for design, health and safety and quality procedures and a proven track record for the delivery of multi-disciplinary building and civil engineering related projects at airports, on time and to budget.

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## Professional history

Nirupa is a director at AES Ltd. and has been working on aviation related projects for her entire career. She has a sound understanding for design, health and safety and quality procedures and a proven track record for the delivery of multi-disciplinary building and civil engineering related projects at airports, on time and to budget. She has delivered projects from Feasibility Studies to Detailed Design and into Construction support, providing value engineering and sustainable solutions on a number of projects.

Nirupa has experience in both the UK and abroad. In her previous roles, Nirupa has been responsible for design co-ordination & project management between Multi Discipline teams of major airport projects as an Airfield designer, Design Manager and Project Manager & Project Director. Nirupa is actively involved from the bid stage, defining project scope and managing budgets throughout the project complete life cycle.

## Selected project experience

**Defence Infrastructure Organisation, Biennial Airfield Inspection Programme (Project Manager, Principal Pavement Inspector) – May 2019 to Present:**

Responsible for the management of the inspection of pavements at a number of MoD airfields & recommendation of pavement rehabilitation options. Experience includes developing the programme of works, production of RAMS, pavement inspections and production of survey report to provide planning and technical data to maintain airfield pavements. Currently just started a 4-year contract as a Principal Pavement Inspector at MOD Airfields.

**Runway Extension, Plaine Corail Airport, Rodrigues, ARL / AML (Project & Design Manager) June 2021-Present:** Airfield Project & Design Manager for Rodrigues Airport: Nirupa is leading the materplanning and technical assessments for this major project at Rodrigues airport to upgrade the existing airport. The project includes full technical assessments of all the existing airport facilities with planning for upgrade where necessary including expansion of the passenger terminal, main passenger apron plus a new code 4C runway.

**CADP Project, London City Airport (Project & Design Manager) – May 2018 – June 2021:**

Project & Design Manager for the rolling programme of works as part of the overall airport development programme. Projects include Landside Roads and Car Parks, New Sub-station and power supply and distribution, dockside development, new welfare facility, new taxiways and airfield drainage system. Design manager during Construction of the project.

**Gatwick Airport Ltd – Boeing Hangar Design (Project & Design Manager) – January 2017 – April 2018:**

Project & Design Manager for the Boeing Goldcare Code F Hangar, responsible for all infrastructure works relating to the Boeing Hangar Design. Managing core team of 40 members. Coordination, both with multidiscipline

technical leads as well as collaborating with external design consultants to ensure a coordinated design solution is presented to the Client. Involved in writing bid documentation during tender stages and progressing the project through Planning and RIBA Stages 2 to 6. Main Client interface, representing the design team at weekly Client meetings and undertaking all design reviews prior to submission.

**Hamad International Airport (HIA), Qatar - Western Taxiway and Apron Parking – (Project & Design Manager)** Project Value: \$550M - Jan 2016 to Apr 2018:

Project and Design Manager for the New Western Parallel Taxiways, Rapid Exit Taxiways, Link Taxiways and temporary stands for the 2022 FIFA World Cup. Responsible for design team coordination over multiple offices in the UK and UAE. Main Client interface responsible for project progress reporting, effective change management, communications to the design teams and coordination with the cost consultants. Reporting both internally and externally, including client and stakeholder presentations with the Client, HIA steering committee and the airport board.

**HIA - East West Tunnel Extension, Qatar (Project and Design Manager)** Project Value: \$120M - August to October 2015:

Project Manager for the tunnel extension project at Hamad International Airport involving multidisciplinary design teams with utility designers including, MEP, stormwater drainage, Fire and Structural Engineers & Architectural design. Responsible for coordination of the aviation team to deliver to a challenging program.

**East Coast Helipad Feasibility Study, Grimsby, UK (Project Manager)** July – December 2015:

Project Manager and aviation designer for the helipad feasibility study. Responsible for selecting location and criteria for providing a helipad for an offshore facility. Working in collaboration with the Environmental and Planning teams as well as the Client's engineering team. Presentation to the Client following Feasibility Study and progressing to Preliminary Design.

**Muscat & Salalah Cargo Airport Development (Project Manager)** - Project Value \$750M, 2014 – 2015: Civils lead and Project Manager for the Muscat & Salalah Airports Development. Range of design for both Airside and Landside elements including below ground utilities, taxiways and cargo facilities. Production of calculations, schedules and detail drawings for construction issue. Involved in multi-disciplinary design co-ordination and responding to Client queries during construction. Responsible for review of the final civils package of prior to delivery to the Client.

**London Heathrow Airport – Lead Programme Designer - Airfield Resilience at Heathrow (Project Manager)** January to August 2014:

A portfolio of projects under the role of Lead Programme Designer for Resilience. Project Manager for a number of projects under this role, providing weekly/monthly financial reporting, design reviews and coordination and carried out monthly project reviews. Main Client contact for the works and interface between project teams.

**Heathrow Airport – T4 Baggage Reconfiguration (Project Manager & Designer)** February to August 2014:

Undertook Feasibility, Options and Scheme design for the provision of an additional A380 baggage belt in T4. This was part of the Resilience Program. Review and analysis for requirements of out of gauge facilities and review of safety procedures in providing the new system.

**Heathrow Airport – Taxiway Bravo Code F Realignment – (Design Engineer and Project Manager)** January to August 2014:

Designer & PM for the realignment of Northern Taxiway Bravo for upgrade to A380 compliance from Options to Preliminary Design stages. Details of works include pavement and geometric design; development of phasing works, interface with RETs and adjacent Taxiway Alpha rehabilitation works including stakeholders' consultation. Completed the Initiate, Options & Preliminary Design Stages. Presented Solutions Design at Gateway Stage to the Client and involved in preparation works for Gateway approvals.

**Stockholm Skavsta Airport – Runway Rehabilitation Options Study (Pavement Inspector),** September to October 2012:

Undertook visual site (PCI) inspections of the runway pavement and involved with subsequent development of the options report detailing runway rehabilitation. Managed Client and Stakeholder liaison, progress and financial reporting and maintained Quality files.

**Gatwick and Heathrow Airports - Airside Asset Maintenance Strategy Project (Project Manager, PCI Inspector),** 2009-2010: Management of a portfolio of 17 Projects (Heathrow) & 9 Projects (Gatwick) to

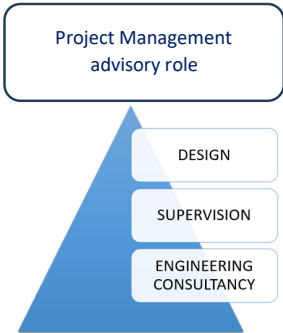
Nirupa Gumani, CEng, MICE

devise a maintenance plan for the airport and reduce the reactive maintenance works that are currently being done. Duties involved co-ordination between various task holders, stakeholders, sub consultants and pavement (PCI) inspections as well as Client interface and management.



# Rabih Elsheikh FOLFOL

|                         |  |                      |
|-------------------------|--|----------------------|
| <b>Current Position</b> | <b>Senior Airport Engineer – IT/SAS /ELV PMO, Design and Supervision</b> |                      |
| Date of birth           | 13/04/1985   |                      |
| Nationality             | Lebanese   |                      |
| Marital status          | Married having 2 kids  |                      |
| Period with Egis        | 3 months   |                      |
| Years with ADP Group    | Since 2014-2024  |                      |
| Years of experience     | 16 Years professional experience   |                      |
| Language proficiency    | Arabic   | Native               |
|                         | French   | Professional working |
|                         | English  | Professional working |



## EDUCATION

**2002- 2007** Bachelor Degree in Electrical and Telecommunication Engineering.  
Beirut Arab University, Beirut, Lebanon

## QUALIFICATIONS

- ◆ ENAC– ATOLL & LAGON software simulation trained for Instrument landing system (ILS).
- ◆ CCNA 1 Networking Basics
- ◆ CCNA 2 Routers and routing basic
- ◆ CCNA 3 Switching Basic and intermediate routing
- ◆ CCNA 4 WAN Technology

## PROFILE – PROFESSIONAL EXPERIENCE

- ◆ Over 15 years professional experience in SAS/ICT/ELV systems engineering and fully committed in design, implementation and integrated airport systems by following the international and local codes as well as the latest approved technology by airport industry such IATA, ACI, ICAO etc...
- ◆ Professional work experience in pre-sales engineering, project tender evaluation, providing system design solutions, bidding estimation, building business case & preparing technical write up prior to client presentation of propose solution.
- ◆ In charge of IT / ELV and security & life safety systems such SCN Cabling infrastructure, external utilities, DATA CENTER, CNE, WDN, DAS, CCTV, SACS, PAS, FAS, VOIP, Master clock and CPMS.
- ◆ GOOD knowledge in AOS-airport operational systems, master system integrations as well as Integration brokers and contributing in the design of AODB, RMS, CUPP/CUSS, BRS and FIDS including relevant interfaces.

- ◆ Contribute in the new digital strategies and plans for the future airports incorporating all innovative and trends technologies to provide a full automated system including total airport management (TAM) , create a synchronize and transparent environment through collaboration decision making (CDM) solutions to serve Landside and airside stakeholders.
- ◆ Following the latest innovative technologies and solutions to enhance passenger experience and to improve airport operations as well as to prevent the spread of infections inside airport :
  - Seamless travel journey using facial iris recognitions and security walkthrough
  - Digital control tower by using Analytics and IOT devices.
  - A-SMGCS and Digital Apron for runway and taxiways.
  - Artificial intelligence robots and Autonomous vehicles using 5G Private LTE network.
  - 3D Holographic and digital mobile guide app and augmented reality (AR) for wayfinding.
  - 5G Private network and block chain technology.
  - Drones for maintenance and security surveillance.

## EMPLOYMENT HISTORY

|                      |  |   |
|----------------------|--|---|
| <b>2024- Present</b> | Egis KSA- AVIATION                           | Senior Airport IT system-innovation and digital |
| <b>2014-2024</b>     | ADP Ingenierie- ADP Group                    | Senior Engineer IT/SAS                          |
| <b>2011-2014</b>     | THALES international middle east-Dubai       | System Engineer and Coordinator                 |
| <b>2010-2011</b>     | THALES Group- Tender and bid                 | System Engineer                                 |
| <b>2009-2010</b>     | THALES International middle east- Abu Dhabi  | Project Controller                              |
| <b>2007-2009</b>     | Vodatel- Saudi inteltec Riyadh, Saudi Arabia | Telecom Site Engineer                           |

## SELECTED EXPERIENCE

### ❖ DESIGN EXPERIENCE – SENIOR SAS/IT ENGINEER -ADP INGÉNIERIE

Producing a fully detailed design of the IT subsystems by following the following stage:

- ◆ Understands client’s requirements and identifies input and outputs.
- ◆ Organizes and plan the studies and drawings production in respect of the delays at any stages of the studies.
- ◆ Prepares sketches and the feasibilities studies to define the guidelines of the project and enable the client to make the necessary choices.
- ◆ Studies all the spatial, temporal and technical constraints dictated to the project, in coordination with other technical consultant trades.
- ◆ Summarizes all technical aspects and write specification.
- ◆ Preparation of tender documents for bidders
- ◆ Assess and support bidder on tender queries
- ◆ Technical and commercial evaluation of bidders offer and proposals.
- ◆ Contribution in the final decision of the selected bidder prior award.

#### ❖ SUPERVISION WORK – LEAD SAS/IT ENGINEER -ADP INGÉNIERIE

- ◆ Design review of drawings and specification for Design and built package
- ◆ Evaluating engineering submissions such as but not limited to Prequalification, Sub-Contractor Approval (SCA), Organization Chart (OC), Method Statements Submittal (MSS for Dismantling, Installation, Migration Plan, Testing & Commissioning), Document Submittal (DS), Shop Drawings (SDS), Work Notification, Site Clarification Request (SCR), request For Information (RFI), Material Submittal (MS), Compliance Statement.
- ◆ Follow up supervision works and attend meeting progress with client and contractor.
- ◆ Follow up all master system integrations and interfaces between the systems.

#### ❖ PRE-SALES WORK – SYSTEM ENGINEER –THALES INTERNATIONAL MIDDLE EAST

- ◆ Contribution in several pre-sales and bid for several tenders in Airport and transportation field in UAE (Al AIN airport, Union railways, AD midfield, Concourses 2 Dubai airport) and Qatar (Lusail, NDIA, West bay people mover).
- ◆ Analyses, defines subsystem architecture by following the technical specification, and interfaces with system level.
- ◆ Prepare RFQ technical part and bill of quantity.
- ◆ Analyses suppliers offer (technical/sow/cost) select appropriate equipment and provide acceptability signal to procurement, clarify technical points with supplier in a traceable way.
- ◆ Prepare the MEP requirement needed for each system and the responsibility matrix.
- ◆ Prepare proposal technical narrative, ensure proposal contribution is delivered in time and reviewed.

#### ❖ SUPERVISION EXPERIENCE - LEAD SITE ENGINEER – THALES INTERNATIONAL MIDDLE EAST

- ◆ Implement and maintain all efforts to assist and support subcontractors to perform the work within targeted completion date of the project in accordance with the team objectives as well as attend site walk and coordination meetings.
- ◆ Ensure that the installation work performed by the subcontractors meets quality requirements in order to avoid any re-installation
- ◆ Ensure that the installations such as pulling cabling, terminations, testing and commissioning are executed according to specifications, rules and good manner by subcontractors
- ◆ Highlight any dependencies reducing progress on site
- ◆ Strict follow up of inspection request, Snag List clearance and related completion work certification
- ◆ Fully Coordination with MEP Contractor to execute the containment and electrical requirement for each system

### PARTICIPATION PROJECTS LIST

#### ❖ UNITED ARAB EMIRATES



- ◆ ABU DHABI EAST MIDFIELD CARGO TERMINAL (EMCT) AND FORWARD TERMINAL FACILITY (FTF):
  - ✓ Detailed design for ICT/ELV system



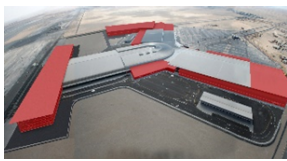
◆ DUBAI INTERNATIONAL AIRPORT:

- ✓ Construction and implementation of Concourse A
- ✓ Supervision work for Terminal 1 and concourse B
- ✓ Full detailed design work for concourse B improvement of SAS/ICT/ELV systems



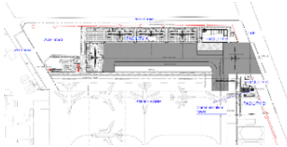
◆ SHARJAH INTERNATIONAL AIRPORT:

- ✓ Detailed design work for Expansion of SIA – New terminal building & Central utility building
- ✓ CUP and infra-structure relocations supervision works.
- ✓ Construction and implementation of Engineering building facility



◆ AL MAKTOUM INTERNATIONAL AIRPORT :

- ✓ Full detailed design work for Expansion of passenger terminal building



◆ TRITON - P960 ALDFRAH – ABU DHABI

- ✓ Full detailed design work for backbone cabling infra-structure, RF feeders for communication towers and antennas and security and life safety systems for US army hangars & building facility.



✓ ABU DHABI CARGO TERMINAL:

- ✓ Construction and supervision of Southside cargo terminals and cargo village refurbishment.

◆ DELMA ISLAND AIRPORT

- ✓ Concept design and high-level cost estimation for new terminal building and other building facilities.



◆ BOROUGE 2 – OIL AND GAS

- ✓ Construction and supervision of ICT systems inside OCC and substations

❖ Poland



◆ New Solidarity Transport Hub and CPK (Central Communication Port) - WARSAW-POLAND

- ✓ Master plan for passenger processing system (seamless travel journey by using facial/iris recognition), CUPPS, CUSS/LDCS systems

## ❖ SAUDI ARABIA

**matarat**  
Holding



نيوم NEOM



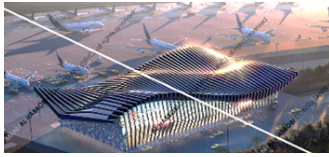
- ✓ Project management office (PMO), Technical & Engineering advisory role for MATARAT Holding in Riyadh, KSA.
- ✓ Support Technical Engineering workflow, Produce and develop the MATARAT engineering Manuals, design criteria and Master specifications for 27 airports in Kingdom Saudi Arabia.
- ✓ Assess and support MATARAT in the review of RFP technical design, follow up and evaluation of the new business use cases proposal by Opco's (JEDCO, RAC, DACO and cluster 2 Airports) for the relevant AOS/ICT /ELV systems including the innovations and advanced airport automation systems.
- ◆ King Khaled international airport
  - ✓ Detailed design for Digital Signage and wayfinding by using innovative solutions
- ◆ NEOM AIRPORT PROJECT :
  - ✓ Innovations and trends technologies– Proof of concept
  - ✓ Neom Bay Digital strategies
- ◆ HAJJ TERMINAL BUILDING ( JEDDAH)
  - ✓ Concept design for the refurbishment of existing Hajj terminal building.
- ◆ GSM- MOBILE OPERATOR PROJECT:
  - ✓ Upgrade of 3G WMTS MOBILY network for Mobily Operator
  - ✓ Installation of main hub for ZAIN operator

## ❖ KINGDOM OF BAHRAIN



- ◆ ROYAL TERMINAL BUILDING:
  - ✓ Full detailed design work for all SAS/ICT/ELV system
  - ✓ Simulation study for Wi-Fi and electro acoustic study
- ◆ BAHRAIN INTERNATIONAL AIRPORT:
  - ✓ Full detailed design work and tender evaluation for new terminal building & Facilities
  - ✓ Demolishing plan of the existing terminal
- ◆ ATCC BUILDING :
  - ✓ Full detailed design work for new ATCC air traffic control building

## ❖ IRAQ



### ◆ KARBALA INTERNATIONAL AIRPORT:

- ✓ Concept design of new terminal building 6MPAX
- ✓ Concept and preliminary design of Ziyara hajj terminal

## ❖ KAZAKHSTAN



### ◆ ALMATY INTERNATIONAL AIRPORT:

- ✓ Concept and Preliminary design work for new terminal and CUP buildings

## ❖ KENYA



### ◆ JKIA INTERNATIONAL AIRPORT:

- ✓ Full detailed design for SAS/ICT/ELV Systems for the Expansion of the existing Building- New terminal building

## ❖ NEPAL



### ◆ KATMANDU INTERNATIONAL AIRPORT:

- ✓ Full detailed design work for New Terminal building including building facilities such as fire station and substations.

## SOFTWARE SKILLS AND TOOLS

### ❖ DRAFTING AND DRAWINGS TOOLS

- ◆ BIM, Autodesk Revit, AutoCAD.

### ❖ SIMULATION SOFTWARE HANDLED

- ◆ CATT Acoustics simulation for electro-acoustic study
- ◆ WDN Air Magnet,
- ◆ Instrument landing system - ENAC ILS ATOLL and LAGON

### ❖ PLANNING SOFTWARE HANDLED

- ◆ Micro-Soft Project



# MR. ROBERT THOMPSON

B.E. C.Eng, MIEI



## Personal Details

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Name Mr. Robert Thompson  
Nationality Irish

## Education

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2007 Chartered Engineer (C.Eng) – Engineers Ireland  
Membership No: 042117  
1997– 2001 National University of Ireland, Galway  
Bachelor of Engineering (Civil Engineering)  
1991 – 1997 Rice College, New Road, Ennis, Co. Clare, Ireland  
Leaving Certificate: Honours grades in all subjects taken

## Career Profile

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July 2023 – Egis (Saudi Arabia)  
*Position:* Project Manager – Western Runway and Taxiway Bravo Refurbishment, King Fahd International Airport, Dammam – Saudi Arabia (July 2023 – May 2024)  
*Position:* Head of Construction Monitoring (PMO) – seconded to Matarat, operating 29 plus Airports throughout KSA; Riyadh, Saudi Arabia (Nov 2023 – present)

Jan 2021 – June 2023 Dar Al Handasah (Qatar)  
*Position:* Senior Resident Engineer – Package 12, Western Stands and Development Works, Hamad International Airport - Qatar

Jan 2018 – Jan 2021 Turner International (India)  
*Position:* Lead Airside Manager – New South Parallel Runway, Kempegowda International Airport (Bangalore) - India

Oct 2013 – Dec 2017 Hill International (Sultanate of Oman)  
*Position:* Resident Engineer – Airfield Infrastructure, Muscat International Airport - Oman

Aug 2008 – Sept 2013 COWI (Sultanate of Oman)  
*Position:* Resident Engineer – Roads, Bridges and Drainage, Muscat International Airport - Oman

March 2005 – July 2008 Waterman-Moylan Engineering Consultants (Ireland)  
*Position:* Project Manager/ Resident Engineer

June 2004 – March 2005 Byrne Bros Formwork (United Kingdom)  
*Position:* Site Engineer – Arsenal Football Stadium, London, UK

June 2001 – June 2004 Clancy Docwra (United Kingdom)  
*Position:* Site Engineer/ Sub-Agent

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**Jul 2023 –**

**Egis**

Egis served as the Project Manager/Construction Manager (PMCM) on the refurbishment of the Western Runway and Taxiways from CAT 1 to CAT 111 at King Fahd International Airport in Dammam, Saudi Arabia which was completed ahead of schedule; after completion of the Runway, I was seconded to Matarat who operate 29+ Airports in Saudi Arabia to follow progress of ongoing aviation construction projects. Some key highlights to date have been the opening of Al Ahsa Terminal and readiness of all Airport Infrastructure for Hajj 2024 (New Taif Terminal and Overflow Terminal in Jeddah).

**Position: Project Manager – Airport Infrastructure (July 2023 – May 2024)**  
**Upgrade of Western Runway, Dammam International Airport, Saudi Arabia**  
**(Civil Works \$65 million)**

Responsibilities and duties:

- Supervision of the following works:
  - Refurbishment of the Western Runway to CAT 111 status and completion of Tie-in Taxiways to Taxiway Bravo on a fast-track basis which started in July 2023 and was completed in November 2023 (Ahead of Schedule)
  - Refurbishment of Taxiway Bravo in three phases from November 2023 and completed in May 2024, ahead of schedule (3 months)
  - Installation of a brand-new LED AGL lighting system and associated Airfield Lighting Control System.

**Position: Head of Construction Monitoring (PMO) – Matarat (November 2023 – present)**  
**Seconded to Matarat on behalf of Egis, who operate 29+ Airports throughout Saudi Arabia**

Responsibilities and duties:

- Supervision of the following works:
  - Chairing Monthly Meetings with the 4 Op-Cos (JEDCO – Jeddah Airport, RAC – Riyadh Airport, DACO – Dammam Airports and Cluster2 – Regional Airports) to record progress of all construction projects in execution and associated construction issues.
  - Peer review of Claims and Variation Orders exceeding 10% of the Contract Value where additional funding is requested.
  - Site Visits and associated auditing of various projects under execution.
  - Troubleshooting for old legacy projects and ongoing troubled projects and advising Matarat Senior Management on mitigation measures and associated follow-up.

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**Jan 2021 – Jun 2023**

**Dar Al Handasah**

Dar Al Handasah served as the Project Manager/Construction Manager (PMCM) on the expansion of Hamad International Airport for the refurbishment of Western Runway and expansion of Western Taxiways and Stands, which were all made operational for the FIFA World Cup in 2022.

**Position: Senior Resident Engineer – Airport Infrastructure**  
**Package 12 – Western Stands and Development Works, Hamad International Airport, Qatar**  
**(Civil Works \$900 million)**

Responsibilities and duties:

- Supervision of the following works:
  - Refurbishment of the Western Runway and completion of Tie-in Taxiways to Western Stands within 150m strip – Opened May 2021
  - MS1 – Victor Stands + associated Taxiways: Opened July 2022
  - MS2 – 1<sup>st</sup> 17 Stands + associated Taxiways: Opened September 2022
  - MS3 – 2<sup>nd</sup> 17 Stands + associated Taxiways: Opened October 2022
  - MS4 – North Holding Bay + associated Taxiways: Opened October 2022
- Responsible for a team of resident engineers, surveyors and inspectors who inspected the Contractors work on a daily basis.
- Controlling and issuing any variations to the works to the Contractor.
- Ensuring that the Contractors works were carried out as per the construction drawings and issuing NCRs where the quality of the works did not meet the standard expected.

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**Jan 2018 – Dec 2020**

**Turner International**

Turner International acted as the Project Manager on the expansion of Kempegowda Airport in Bengaluru for both the new Terminal and new runway and associated Airport infrastructure. Kempegowda Airport is one of the fastest growing airports in the World with the new southern runway opened in December 2019; substantial completion was achieved in Q1 2021 for the entire works in line with the original Baseline Schedule.

**Position: Lead Airside Manager – Airport Infrastructure**  
**New South Parallel Runway Project, Kempegowda Airport Expansion, Bengaluru**  
**(Civil Works \$330 million)**

Responsibilities and duties:

- Supervision of the following works:
  - SP1 – construction of 17 Code C remote stands – opened April 2019
  - SP2 – construction of new parallel Code F runway & cross-taxiway along with Ancillary Buildings, 2 x Tunnels & East Remote Stands (10 Code C & 2 Code F stands) – Opened December 2019
  - SP3 – construction of Contact Stands tying into new Terminal Building – completed March 2021
- Responsible for a team of resident engineers, surveyors and inspectors who inspected the Contractors work on a daily basis.
- Controlling and issuing any variations to the works to the Contractor.
- Ensuring that the Contractors works were carried out as per the construction drawings and issuing NCRs where the quality of the works did not meet the standard expected.
- Chairing progress meetings with the Contractor to discuss progress of the works, HSE, design issues and future works and liaising with the Client to address issues/problems where they arose.
- Responding to all correspondence in a timely and prompt manner (Letters, RFIs, RFIs, CVIs and shop drawings/ material submittals/method statements for review).
- Handing Over of the works to the Client and associated closing out of any outstanding defects/snag lists.

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**Oct 2013 – Dec 2017**

**Hill International**

The Development of Muscat International Airport is the largest ever infrastructure project undertaken in Oman, Hill International undertook supervision of the Project in January 2013; the new runway opened in December 2014.

**Position: Resident Engineer – Airfield Infrastructure (MC-1)**  
**Development of Muscat International Airport, MC-1 Package**  
**(Civil Works \$1.2 billion)**

Responsibilities and duties:

- Supervision of all the Airfield and Infrastructure activities associated with the development of the MC-1 works at Muscat International Airport.
- Supervision of the construction of a new Runway (Code F – 4000m x 60m), Taxiways, Aprons and associated AGL system.
- Supervision of all Airport related Infrastructure (AFL Substations, Fuel Farms & Utility Yards).
- Responding to all correspondence in a timely and prompt manner (Letters, RFIs and Interface RFIs, CVIs and shop drawings / material submittals for review).
- Resolution of all design issues with the Engineer/Contractor in a timely manner through Site Instructions and RFIs.
- Supervision of the Handover of the works to the Client and closing out of all snagging/defect reports associated with the Phase 1 works.

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**August 2008 – Sep 2013**

**COWI-Larsen JV**

COWI-Larsen is an engineering and architectural joint venture, designing and supervising the construction of Roads, Bridges and Drainage infrastructure works at Muscat International Airport in Oman.

**Position: Resident Engineer – Roads, Bridges and Drainage**  
**Development of Muscat International Airport**  
**(Civil Works \$180 million)**

Responsibilities and duties:

- Supervising all the Roads, Bridges and Drainage activities associated with the development of the new airport.
- Supervising the live diversion of the Sultan Qaboos Highway with the construction of a major graded interchange whilst keeping the flow of traffic live.
- Supervision of the construction of concrete structures (13 bridges, concrete lined channels & box culverts) along with asphalt works and all landscaping works (2 No. water features)
- Responding to all correspondence in a timely and prompt manner (Letters, RFIs, Interface RFIs, CVIs and shop drawings/ material submittals for review)
- Resolution of all design issues with the Engineer/Contractor in a timely manner through Site Instructions and RFIs
- Chairing progress meetings with the Contractor to discuss progress of the works, HSE, design issues and future works.
- Issuance of Non-Conformance Reports should the Contractor not carry out the works to the correct standard.

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## **March 2005 – July 2008      Waterman-Moylan Engineering Consultants**

Waterman Group is a worldwide multi-disciplinary engineering consultancy based in London. Waterman-Moylan is one of the leading consultancies in Ireland and has worked on a number of major building and infrastructure projects throughout Ireland.

### **Position: Project Manager/ Resident Engineer**

Based on a number of projects in the Dublin region which included both Civil and Structural works:

- Sallymount Stud Farm, Kildare - €2.1m: Project Manager representing the client on the construction of a new American barn, infrastructure works and the refurbishment of an existing yard for HH Aga Khan which was completed on time and on budget.
- City Junction Town Centre, Dublin - €450m: Resident Engineer on a mixed use development, made up of the Hilton hotel, 700 apartments, office and retail units in blocks.
- The Park, Carrickmines, Dublin - €50m: Resident Engineer on the infrastructure for a 37 acre mixed use development.

Responsibilities and duties:

- Supervision of all structural and civil elements during construction and was responsible for liaising with the client, local authority and contractor.
- Responsible for authorizing interim payments and settling the final account.
- Responsible for chairing meetings and resolving outstanding design and construction management issues.

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## **June 2004 – March 2005      Byrne Bros Formwork**

Byrne Bros Formwork is one of the premier concrete frame contractors in the UK specialising in pre-cast, slip-form, post-tensioning, jump-form and top-down concrete construction.

### **Position: QA/QC Engineer**

**Arsenal Football Stadium (Emirates Stadium)**  
**£360 million**

Responsibilities and duties:

- Responsible for all pre-pour and post pour concrete inspections.
- Checking of all steel and holding down bolts as per the construction drawings prior to concrete.
- Receiving sign-offs from both the main contractor and Engineer prior to all concrete pours.

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## **Sept 2001 – June 2004      Clancy Docwra Ltd**

Clancy-Docwra Ltd is one of the leading construction companies in the utilities sector in the UK specialising in the field of water and wastewater works with over 2,000 employees throughout the UK.

### **Position: Site Engineer/Sub-Agent**

Based on a number of water and waste-water projects in the South-East of England:

- Ascot Racecourse Water Diversion - £0.6m: Site Sub-Agent on the diversion of a 900 diameter water main as part of the enabling works to allow for the construction of an underpass.
- Baldock Bypass Water Diversion - £2.1m: Site Engineer on the construction of an 8km potable water-main along with the upgrading of a water treatment works.
- Royston Sewage Treatment Plant – £1.6m: Site Engineer on the upgrade of an existing sewage treatment works.

Responsibilities and duties:

- Preparation of Method Statements and Risk Assessments.
- Preparation of Monthly Plant and Site Returns.
- Setting out and recording progress of the works

## Key Attributes

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- Excellent team player with strong interpersonal skills.
- Results orientated with strong problem solving and decision making skills.
- Proven ability to develop strong professional relationships with key stakeholders.
- Ability to work to strict reporting deadlines and deliver under pressure.
- Technically strong with significant experience in civil engineering works.
- Pro-active with a strong “can-do” attitude.

## Skills

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- Advanced knowledge of MS Excel and Word.
- Advanced experience in using AutoCAD and Microsoft Project.
- Competent in the use of Aconex (Online Project Management Software)

## Interests

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- Golf, rugby, gaelic games and travel.
- Reading and current affairs.

## Rolland Velho, RIBA Principal Director

### Key skills

Spatial Planning Lead  
Architectural Team Lead  
Project Design Lead  
Project Director  
Project Lead Architect

### Years of experience

24

### Education

PG Diploma in Professional  
Practice Architecture  
Post Graduate Diploma  
(HONS) in Architecture  
Bachelor of Architecture  
(Hons) Architecture



### Registrations/Certifications

Registered Architect (ARB)  
Life Associate Member (IIA)  
Registered Architect (CoA)

### Professional affiliations

Chartered Architect (RIBA)

### Language skills

English

### Nationality

British

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Rolland is a Chartered Architect with over 24 years' experience within multi-disciplinary design offices and architectural studios. With over 15 years of Level 2 BIM experience, he leads development of innovative delivery strategies to communicate, and collaborate between design teams, contractors, clients, and stakeholders using a virtual environments and digital twin.

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### Professional history

Rolland is a principal director at RVT ARCHITECTS and has been working on multi-disciplinary architectural design projects for his entire career. He has led a wide variety of projects through all stages from feasibility, concept and design development to detail design and preparation of contract documentation, through to construction and handover.

### Selected project experience

#### **Spatial Planning of the expansion to the Passenger Terminal Building, Plain Corail Airport, Mauritius**

Spatial Planning Lead for the expansion of the existing Passenger Terminal building to cater for increased passenger demand due to the proposed new runway and expansion of the apron.

#### **New ATC Control Tower & new ARFF Building, Plain Corail Airport, Mauritius**

Architectural Team lead for the concept & supervision of the detail design of the new Air Traffic Control Tower and the new ARFF facility to serve the new Runway at Plaine Corail Airport, Mauritius. The ATC Cab was designed to have 180 degrees uninterrupted views to the runway and apron. The ARFF facility was design to serve 3 fire tenders along with a dedicated maintenance bay and associated staff accommodation.

#### **New GSE Building, Plain Corail Airport, Mauritius**

Architectural Team lead for the concept, developed design & detail design of the new GSE Maintenance and storage facility to serve the expanded airport and new runway. The GSE facility has been designed with 3 flexible maintenance bays catering for all GSE equipment serving the airport.

#### **Heathrow Expansion Project (HEP) London –**

Project Director and Technical Lead for the design of Airport Supporting Facilities to support the expanded Third Runway at Heathrow. Responsibilities included leading the design team for around 600 Airport Supporting facilities including Data Centres covering a built-up area of 2.5 Million sq.m. Tasks included producing feasibility designs, strategic operational strategies, stakeholder management, airline engagement, EIA assessment, public consultation and DCO documentation.

**Stansted International Airport – New Arrivals Terminal:**

Led the Peer Review for the RIBA Stage 2 Architectural design information produced by Pascall and Watson, for a new Arrivals Terminal at Stansted Airport focusing on compliance, statutory conformance, value engineering and buildability.

**Heathrow Terminal 4 – Pedestrian Link Bridges:**

Architectural Design Team Lead for the design of the new Pedestrian Link bridges that connect the drop off area to the Terminal 4 Forecourt. The design of the bridge permits the forecourt to be extended to the drop off zone thereby enhancing passenger experience.

**Heathrow Q6+ Programme – Security Programme,**

Technical Authority for the Regulated Campus Security programme at London Heathrow Airport to develop an Agile Design Standard for Security functions in Terminals and Control Posts.

**Data Centre 2, New Muscat International Airport MC2- Muscat, Oman, Muscat, Sultanate of Oman-**

Design Team Leader and BIM Co-ordinator for the design of one of 2 Data Centres for Muscat International Airport. Duties included design, multi-disciplinary co-ordination, Clash detection using Navisworks and automation to produce construction documentation.

**Kigali International Airport – New VIP Terminal, Kigali, Rwanda,**

Lead Architect for the concept, detail and Tender design of the New VIP Terminal designed specifically to satisfy diplomatic, operational, security and state protocol for the provision of a dedicated VIP Terminal at Kigali International Airport. The Building has been designed to form a backdrop to Traditional Welcome ceremonies for visiting dignitaries and heads of state.

**Relocated Facilities & New Training Centre, Sizewell B, Sizewell,**

Project Design Lead for the concept design of the New Training Centre and Masterplanning of the Relocated Facilities for the Sizewell B nuclear power station. The project includes concept design of the New Sizewell B Training Centre with Control Centre Backup Facility, Outline design for a new visitor centre, laydown area, outage and operational car parking and a new circulatory access road.

**RNAS Yeovilton, Yeovilton, England,**

Design Lead for the design development and Construction Documentation of the Domestic Site Redevelopment at RNAS Yeovilton to create a single main operating base for the Ministry of Defence's (MoD) new Wildcat helicopter. The project includes design development of the Senior Ranks Mess Building, a new Physical & Recreational Training Centre, Dental Facility, 3 Single Living Accommodation buildings, Sports Pavilion, and other ancillary buildings.

**Gatwick North Terminal Development Programme, Gatwick, England,**

Developed Strategies for Architectural design delivery by the multi discipline design team for the re-configuration of the North Terminal Landside area, comprising the reconfiguration of the arrival area at Level 00, a new design for Level 10 creating new check-in/bag-drop facilities to create home hub for a budget airline and relocating/reconfiguring the security facilities at Level 20 to maximise space for WDF shop.

**Sea Rescue Station, New Muscat International Airport MC2- Muscat, Oman, Muscat, Sultanate of Oman,**

RIBA Stages 1-4. Design Team Leader and BIM Co-ordinator for the detailed design stage of the new first response Sea Rescue Station for Muscat International Airport. Duties included conceptual environmental analysis using Ecotect, multi-disciplinary co-ordination, Clash detection using Navisworks, and development of co-ordinated architectural design to construction documentation.

**AOF Building, London Heathrow International Airport, London Heathrow,**

Architectural Lead responsible for Concept & Scheme design for the new BAA Airside Operations Facility Building at London Heathrow. The design was designed to be manufactured offsite to minimise disruption to airside operations.

**London Gatwick International Airport, London Gatwick,**

Involved in providing visualisation and 3D & 5D analytical studies of proposed Masterplan options to Gatwick Airport. Architectural Lead for Interference and Conflict Management (Clash Detection) pertaining to work sites at programme level and services at project level.

**Contingency & Training Centre, Muscat International Airport - Muscat, Sultanate of Oman,**

Design Team Leader and BIM Co-ordinator for the delivery of post RIBA stage C/D information for this significant building within the new airport development.

The role included the creation of Level 2 REVIT models, and parametric modelling of the complex “egg shaped” auditorium in Grasshopper to understand the buildability issues and co-ordinate the structure with MEP services ensuring that fire, acoustic requirements were also met.

**Passenger Terminal, New International Airport - Bugesera, Rwanda,**

RIBA Stages A-F. Project Architect and Design Lead, responsible for the concept and design development of new Bugesera airport Main Passenger Terminal including preliminary environmental analysis, Revit BIM models and co-ordinated details for the complex roof shape.

**Air Traffic Control Tower, Bugesera International Airport - Bugesera, Rwanda,**

RIBA Stages A-F. Project Lead Architect responsible for developing concept and detail design schemes for the Air Traffic Control tower at the New Bugesera International Airport, Rwanda.

**Ancillary Buildings, New International Airport - Bugesera, Rwanda,:**

RIBA Stages A-F. Project Lead Architect responsible for developing design schemes for the various buildings for the new Bugesera airport. Responsible for the concept and design development of the Airport Maintenance facilities building, Airport Rescue & Fire Fighting Facility and the Administration Facility. Duties also included Technical review of the Cargo Facility, Data Centres and Guard houses.

**New Presidents Terminal, Bugesera, Rwanda,**

RIBA Stages A-F. Project Architect working within the team responsible for developing the design and Revit 3D models for this significant building for the Rwandan President.

**Kigali International Airport Terminal Building, Kigali, Rwanda,**

RIBA Stages A-F. Project Architect and Revit Co-ordinator to develop option studies and concept proposals for the upgrading of the existing Kigali passenger terminal building. Responsibilities included attendance at stakeholder meetings, site surveys, local material research and liaison with Structural & MEP consultants Gibb Africa.

**Addis Ababa Bole International Airport, Addis Ababa,**

RIBA Stages A-C. Project Architect responsible for concept design solutions for potential upgrades and extensions to the existing terminal buildings at Bole International Airport

**New Combined Services Development - Maidstone, UK**

RIBA Stages A-D. Design Team leader for the design of the new centralised Combined Services Council Depot Building for Maidstone Borough. The design embraces the principles of sustainable construction including life cycle costing, minimise waste, energy and water consumption.

**HMP Altcourse, Liverpool, UK**

RIBA Stages D-L - Core Team member & Assistant to Team leader/ Design manager. Project consisting of new 180 prisoner Houseblock plus Vocational & Education Building, Workshop & Gym building, Storage facility & Refurbishment to the existing kitchen.

**HMP Chelmsford, Chelmsford UK**

RIBA Stages C-E- Core team member involved in initial & detail design development of Education & Workshop facility, Visitor Centre Reception building.

**Security & Justice Contract, Iraq, Iraq**

Project Architect

**Alders Department Stores, Alders Department Stores**

Team leader involved in Retail planning and detail designs for the refurbishment of 19 Department Stores and 28 Home stores across the UK.

Rolland Velho, RIBARolland **Velho**, RIBA

**World Wide Fund for Nature (WWF), Education Outreach Building, Goa, India**

Winner of an International Design Competition for the Design of the New Educational Outreach Building in Goa, India for World Wildlife Fund for Nature (WWF).

## Sekar Sarathy Balakrishnan – Senior PMO Engineer (Electrical)



An Engineering graduate having 20 years of acquired proficiency in the field of Construction Project Management, Engineering Consultants and PMO Engineer in Airport systems and Airport Facilities Management background aspire to seek a rewarding and challenging position to share and improve my experience and knowledge for the advancement of my career as well as to contribute positively towards the **Organization goals**.

### Core Competencies:

- Oversee the Engineering Design review, validation and operation of special airport electrical systems including AGL-VDGS -SAM-CNS Systems, Electrical Systems.
- Familiar and ability to implement the Standards and Recommended Practices (SARPs) and KSA GACAR Part 139 of Design, Certification, ICAO Annex 14,10, ADM-part 4- Visual Aids, ADM part 5- Electrical systems, ICAO Airport services manual, part 9- Airport Maintenance practices, GCAA in UAE and GACA in the KSA regulation and other local standards, SEC, SBC to the relevant airport projects.
- Strong hands-on Operation and Maintenance Engineer experience in Airport systems and familiar with using the CMM SAP plant asset Maintenance and different utility Interfaces like a Chiller plant, fire panels, generator plant substations and Airport Electrical Systems.
- Extensive experience at the Oversight in installing, maintaining, and operating electrical facilities, specifically for airports such as power distribution, airfield lighting, and communications.
- I have participated in **4 times of Major CAT III B- Airport Runway Rehabilitation Program projects as a client representative inception to handing over to Engineering Services at Dubai Airport**.

### Functional roles:

- Facilitate Operational Readiness and Airport Transfer (ORAT) of New Airport Project Construction and addition of new facilities in existing airport operations as per IATA and ICAO requirements.
- Project management functions such as plan, Execute and operation through CAPEX and OPEX.
- Expertise in the Airport operational and construction requirements and safety procedures.
- Skilled in handling activities related to design coordination, tender support, supervision, Testing - Commissioning, and monitoring of Airfield electrical works, Airfield Infrastructure, passenger Terminal building Systems, landside facilities and Compliance with the Client's project gateway process.

### Key Qualifications

- B.E (Electrical - Electronics Engineering) - Member of Saudi Council of Engineers (ID: 959230)
- Diploma in Electrical - Electronics Engineering

### Training and Certifications

- **Project Management Professional (PMP)® Certification from Instructing.com: PMI Member Id: 5752086**
- **Saudi Council of Engineers professional accreditation Member ID:959230**
- **A-SMGCS: Overview - deployment of A-SMGCS services APT-ASMGCS-INTRO-From EUROCONTROL**
- **A-CDM: Airport Collaborative Decision Making: from concept to implementation' roles-from EUROCONTROL.**
- **ATCO-Basic Meteorology ATC-I-BASIC-MET-From EUROCONTROL**
- **Performance Based Navigation Awareness NAV-PBN-AWR From EUROCONTROL**
- **Advanced Diploma in Computer Hardware - Networking from SISI Institute-Chennai**
- **Certificate of AGLCMS-Maintenance Training ICAO Course No#104 Airport Maintenance from ADB Siemens.**
- **Certificate of Building Management System and 11 KV RMU systems within Airport Infrastructure from Siemens.**

### Summary of Work Experience:

**Organization : Egis Saudi Engineering Consultancy at "MATARAT Holdings" PMO Consultancy**

**Position Held : Senior PMO Engineer – Airport Electrical Systems**

**Industry : Aviation- Project Management Office-PMO**

**Duration : July 2023– Present**

### Roles and Responsibilities:

- Enterprise Project Management Office (EPMO): Working with the Matarat Project - Technical Affairs (P-TA) department, with a Specific focus on Airport Technical and Engineering.

- As part of the Technical Engineering workstream, support and develop the client Airport Engineering assurance manual, Airport Engineering manual, Airport Facility, Infrastructure systems design criteria and Master Specifications implement in the Matarat 26 airports OpCo's in KSA.
- Preparation - Review of Airport Master Planning Reports, Feasibility Project Reports, Design Basis Reports (DBRs), Procurement/Tender Documents, and Tender Evaluation for award of contracts to Consultants and Contractors.
- Assisting the Project Director and Providing Technical Engineering support to develop current state assessment reports and Gap Analysis reports on Future state transition to roadmap support.
- Assist and support Matarat in the review of RFP Technical Design, and review of the new project business case proposed by OpCo's (**RAC, JEDCO, DACO and Cluster 2 Airports**) for Airport's Electrical Systems
- Transfer knowledge and expertise to the cadres of MATARAT Holding and their Airport OpCo's.
- Facilitate to proposed develop the following project methodology in four phases:

**Phase 1:** Current State Assessment Report and GAP Analysis with all subsidiaries.

- Assess technical and engineering organization, available documents, and current processes.
- Review applied standards guidelines (ICAO, ADM, GACA, ACI, FAA, Saudi Building and Electrical codes).
- Undertake gap analysis report and make recommendations for Phase 2 deliverables.

**Phase 2:** New Operating Model for Unified Matarat Engineering Manual for Technical and Engineering.

- Developed Engineering Assurance Manual
- Developed Airport Engineering Manuals
- Developed Airport Facilities Criteria and infrastructure systems design criteria Manuals.
- Developed a list of detailed Master Specifications as per CSI format to implement for new aviation projects.

**Phase 3:** Implementation Roadmap of findings from Phase-1 and Phase-2 for the Future Projects.

- Developed RFP Guidelines for Design services.
- Developed Engineering Procedures and Design Process Manual
- Prepare an implementation plan for the Transition to the new Operating Model aligned with the timeline for the future Projects of the OpCos (Operating Companies) with the above manuals.

**Phase 4:** Continuous Improvement of PMO operation and transfer of knowledge and PMO execution.

- Assist Matarat-OpCo's during the implementation of the Target Operating Model.
- Assist with ongoing technical support for new project's design review and technical design requirements.
- Assist in reviewing the tender document and Project execution and handover and Continuous Improvement.
- Supporting the implementation of PPP projects (Abha Airport), driving the development of key infrastructure improvements through public-private collaboration, to review the proposed concept design.

#### **The Major Projects Associated:**

EPMO set to the Matarat Holding Company, Matarat manages the 26 of the Kingdom's airports through its subsidiaries (**Riyadh Airports, Jeddah Airports, Dammam Airports, and Cluster2 airports**), which aims to develop the Kingdom's airports and improve their performance to keep pace with the rapid development that the Kingdom is currently witnessing. as one of the outputs of the Kingdom's Vision 2030.

**Organization :** Dar Al Handasah Consultants

**Position Held:** Construction Manager/Electrical Engineer –AGL-CNS Special Airfield Systems

**Industry :** Aviation- Project Management Construction Management -PMC

**Duration :** July 2017 – June 2023

#### **Roles and Responsibilities:**

- Airport Construction Supervision Project Management of Airside and Landside infrastructure as per Design Drawings, Contract Conditions, Technical Specifications, Scope of Work (SoW), Design Reports, Bill of Quantities (BOQ), Quality Control Parameters, Method of Statements including monitoring the progress of work and progress, interim-final payment to Contractor.
- Provide Engineering Consultation on Electrical Systems for new construction and major renovation projects at Dubai International - Al-Maktoum International Airport (DWC) Projects.
- Oversee the design and development of engineering solutions, ensuring they meet technical specifications and client requirements.

- Oversee the different contractors for the various ongoing airside Infrastructure projects by ensuring that the design meets (IFC), regulatory requirements to ensure that airfield construction is undertaken safely and on timely commissioning of new airfield infrastructure in close coordination with relevant stakeholders.
- Facilitated Chief Resident Engineer construction activities, facilitated reviewing Contractor's Submissions (shop drawings, Materials, RFI, DS etc.) Monitoring Field Quality Control, Project Progress status and report.
- Participating in IAT- SAT and Testing and Commissioning of AGL-CNS Electrical installation, AFLCMS equipment installation, after-field installation the CMS update and integration with A-SMGCS interface.
- Assist in reviewing the project's close-out documents and approving as-built drawings and O-M Manuals.

**The Major Projects Associated:**

- Dubai International Airport Miscellaneous works Airfield Improvements project cost:AED743 Million.
- Up gradations of AFLCMS system and replacement of Airfield Lighting from Halogen to LED at DXB (NAVITAS).
- **Rehabilitation of CAT III B AGL Systems at North Runway** and its associated Taxiways at Dubai International Airport in 45 days of duration. (SP3-INF-083-02- completed in 2022 with project cost AED 293 Million)
- **Rehabilitation of CAT III B AGL Systems at South Runway and its associated Taxiways at Dubai International Airport in 45 days of duration ;**( DP-INF-16B completed in 2019 with project cost of AED 263 Million)
- Upgrade of ILS- Localizer Antenna and GP mast 20 to 32 Element for DXB RWY 12R-30L (SP418)
- AWOS-Outer Automatic Weather Observation System DXB (SP/DWC-754)
- Ground Movement Radar (GMR) Upgrade at DXB (SP413A)
- Air to Ground Radio System Upgrade and Ground Data Link DWC - DXB (SP404)
- Wide Area Multilateration and Multilateration Systems (MLAT) AMIA and DXB Airport.

**Organization : Advanced ECS LLC-Dubai**

**Position Held: Assistant Project Manager-AGL/CNS Systems Construction**

**Industry : Construction/Contractor**

**Duration : June 2015 – June 2017**

**Roles and Responsibilities:**

- Supervised the pre-construction and construction services for Electrical Systems including the Project team to ensure that the day-to-day duties are performed professionally and expeditiously to support ongoing projects.
- Oversaw and provided Installation support to the specialized supplier of Nav aids systems like DVOR/TACAN, AWOS, ATC Systems, VCCS, VRRS- installation team to complete expeditiously. Efficiently managing a team of Site Supervisors and Technicians.
- Liaising with the Procurement Department to track material order & delivery and other Disciplined Engineers for the proper execution of the work.
- Supervised - implemented the project QA-QC system for construction of the ELV, LV, MEP, and Airfield Civil-related works to the site teams and preparation of engineering drawings for the high mast lights, LV power DBs.
- Supervised project closeout, including securing warranties, acceptance of work, sub-contract and vendor closeout, final payment, records retention, preparing project progress and reporting to the Project Director.

**The Major Projects Associated and Completed:**

- Ghantoot Naval Air Base-Greenfield New Runway, Taxiway, and Apron-Design - Execution of CAT I AGL Systems and, AWOS, DVOR, ATC systems, and associated Electrical systems.
- EK Flight Training Academy New Greenfield Runway at DWC- AGL - ILS and FO Cable Supply and Installation.
- Project25-Upgrade of Abu Dhabi International Airport CAT IIIB Routes and Nav aids - RVR systems.
- Airfield Lighting Control System Services - Works at Abu Dhabi International Airport
- Development of 9 Schools in MoE RAK-Design - Build of complete G+2 Floor Electrical MV-LV and ELV Systems.

**Designation : Electrical (AFL) Inspection Engineer**

**Organization : Dar Al Handasah Consultants-Dubai**

**Industry : Aviation- Project Management Consultant (PMC)**

**Duration : June 2012 – June 2015**

**Roles and Responsibilities:**

- Supervise Contractor's work which has included installation, testing and commissioning of Airfield Ground Lighting systems and electrical utilities panels.
- Supervised construction activities of Airfield Ground lighting-related SMDBs and MV panels and checked the Quality of Electrical works for full compliance with the contract Specification requirements and approvals.

- Oversee the Field Quality Control; Daily Monitoring of Project Progress status and report- Assist the Resident Engineer in Review and approval of Shop drawings, Material/Document submittal, Training/O&M manuals, and approval before installation.
- To participate Installation Acceptance Test (IAT) and Site Acceptance Test (SAT) review the close-out documents and hand over the system to the client for maintenance of new facilities.

**The Major Projects Associated and Completed:**

- Engineering - Project Management Consultant for CAT IIIB AGL systems for refurbishing and upgradation of Fast Track **Runway Rehabilitation of North and South Runway project** and its associate Taxiways (including new 8 RET) at Dubai International Airport in 80 days of duration in the year 2014 with project cost of AED 763 million.
- General Aviation Area and Heliport Phase 1 at Dubai World Central Airport.
- Roads and Infrastructure for Emirates Sky Cargo Terminal at Dubai World Central Airport.

**Organization : Bangalore International Airport Limited-India**

**Position Held : Electrical Engineer-Project - Maintenance-Airport Systems**

**Industry : Aviation/Airport Operator**

**Duration : December 2007 – May 2012**

**Roles and Responsibilities:**

- Lead the service operation and technical support to onsite resources to implement service procedures - Facilitate operation - maintenance assistance.
- Maintenance of complete Airside facilities including AGL and LV-MV systems and Airside MEP systems.
- Oversee the assets and facilities to take over from the Project team through ITP and from different Contractors for Maintenance purposes.
- Provide technical assistance to the Maintenance Manager in developing Assent /Faculties to improve the airport Systems to ensure the ongoing airport operations continue safely and experience minimal interruption.
- Supervised the Contract and trained the External teams / outsourced (rather than internal teams), complex and fast-paced high-profile reputation asset/FM environment in the Airfield Electrical systems.
- Maintenance - Operation and Troubleshooting of Apron High Mast Floodlights and various visual aids such as Nav-Aids buildings and its LV-MV panels of airfield infrastructures etc.
- Planning and execution of SAP-CMMS planned preventive maintenance/Condition-based preventive maintenance of Airfield Electrical Installation and passenger Terminal building electrical utilities and RMUs.

**Organization : M/s Telepower Solutions Limited.**

**Designation : Maintenance Engineer-Facility (HV, MV, LV)**

**Industry : Facility Management Group**

**Duration : April 2004 – Dec 2007**

**Roles and Responsibilities:**

- Oversee the facility - maintenance team ensuring the tasks assigned for all operations and maintenance activities were carried out efficiently.
- Oversee, schedule, coordinate, and perform maintenance and repair of equipment and systems including chillers, HVAC, MEP systems, fire detection, Plumbing, Electrical, building security, etc.
- Oversee the round-the-clock maintenance requests that are attended to within the pre-defined SLA -KPI through the CAFM system for record and performance review purposes.
- Supervised AMC's Contract, Maintenance schedules, and service, cost controls, and liaison with various, systems - Assets and contractors.

**Skill**

Design Engineering Support, Contract Management, Quality Management Systems, Client Relationship Management, Testing - Commissioning, Stakeholder Engagement, Project Management Office, Project Governance, Maintenance Team Management, Airport Operation and Construction management, program management, airport operator

**Personal Details**

Date of Birth : 28<sup>th</sup> April 1981 Nationality : Indian Languages Known : English, Tamil, Hindi

Driving license : UAE-Saudi Arabia

**Reference**

hereby declares that all the information given above is true to the best of my knowledge. Upon request reference will be provided.



## CONTACT US:

For more information about our services and how we can assist you in achieving your project goals, please contact us at:

 **+65 88238370**

 **[contact@jo-angroup.com](mailto:contact@jo-angroup.com)**

### **Jo-An Group Pte Ltd -**

Your Partner in Excellence for Fuel, Oil & Gas, Minerals & Stones,  
General Contracting, and Equipment Supply