

**AQEEL AHMED B.E (Mech)**  
Mechanical Construction Manager  
Saudi Aramco Approved Consultant.(PMC)  
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**Summary:**

Currently working at Al futtaim engineering and technologies, as a Mechanical Construction manager on **Red sea Shura island project**, with around 15+years in HVAC, Plumbing & Fire Fighting system (Infra, villas, high rise towers, Commercial & Residential buildings)

**Education:**

Bachelor of Mechanical Engineering.  
Diploma in Mechanical Engineering.

**Certification & Online Course:**

A Certified Diploma course in HVAC design & installation (India).  
Project Management Professional Full Training.

**Software Known:**

AutoCAD, Microsoft Office & Naviswork freedom.

**Codes & Standards Awareness:**

- Saudi Aramco Engineering standard (SAES)
- Saudi Aramco material system specification (SAMSS)
- Saudi Aramco Engineering procedure (SAEP)
- Royal Commission Standards.
- ASME, ASTM, AWWA, ISO, UPC, IPC, ANSI, AWS, ASHRAE, SMACNA & NFPA.

**Area of expertise:**

- **Project Leadership:**  
Provide technical leadership and expertise in the design, installation, and maintenance of mechanical systems and infrastructure Projects.  
Lead and coordinate the mechanical engineering team's efforts to ensure project milestones are met on time and within budget.
- **Mechanical Design:**  
Develop and review detailed mechanical design and engineering plans, specifications, and calculations for Plumbing system ensure that designs comply with local regulations, international standards, and best practices.
- **Quality Assurance:**  
Establish and enforce stringent quality assurance and control processes to ensure the highest standards of mechanical system design and installation.  
Review and approve technical drawings, specifications, and submittals.
- **Project Management:**  
Oversee the procurement of mechanical equipment and materials.  
Monitor project progress and provide regular updates to senior management.  
Coordinate with other engineering disciplines and project stakeholders to ensure seamless project execution.
- **Technical Expertise:**  
Provide expert technical guidance on mechanical engineering matters.  
Resolve complex technical issues and challenges related to mechanical system & infrastructure.  
Stay updated on industry best practices and emerging technologies.

- Regulatory Compliance:  
Ensure that all mechanical systems comply with local regulations, safety standards, and environmental requirements.  
Coordinate with regulatory agencies and authorities as needed.
- Risk Management:  
Identify potential risks and issues related to mechanical systems and develop mitigation strategies.  
Implement measures to ensure the safety and reliability of the mechanical systems & infrastructure.

### **Work Experience 15+years (4 years consulting and 11 years contracting)**

#### **1.Mechanical Construction Manager**

*At Al futtaim engineering and technologies. (KSA).07-03-2023- till date.*

- Supervise and manage the daily mechanical construction activities on the project.
- Plan, develop, and organize the mechanical construction process to create the most cost-effective plan, ensuring timely completion within budget, and oversee its execution.
- Responsible for executing the scope of work related to construction/fabrication and pre-commissioning in line with the approved project schedule.
- Monitor and report project details, including progress, risks, and opportunities, to the Project Manager promptly.
- Ensure all changes to specifications, work scope, and drawings are properly documented.
- Adhere to Safety and Quality Standards in compliance with relevant policies and procedures.
- Manage site design and mechanical construction processes.
- Plan and allocate all resources, including labor, materials, and subcontractors.
- Lead and motivate the team to meet all project requirements and deadlines.
- Communicate clearly and effectively with all stakeholders.

#### **2.Mechanical Engineer (PMC)**

*At Al Hamdan Consulting Engineers. (KSA).08-08-2019- 06-03-2023.*

##### **Duties & Responsibility as a Mechanical Engineer (PMC)**

- Provide technical input and experiences to resolve any discipline related issues on site that may arise.
- Review submitted shop drawings against contract drawings and specifications, local codes and statutory requirements and international best practice.
- Check and ensure effective co-ordination between disciplines related works and all other disciplines
- Review Contractors Monthly Invoice as per progress.
- Attending to Inspection Requests (IR's) submitted by the contractor and take appropriate action in a timely manner.
- Attend project progress meetings.
- Report any works carried out by contractor found to not be in accordance with approved drawing and specifications and report to stakeholders for appropriate action.
- Monitor quality of works and assess the safety at site including health and environmental issues, ensuring compliance with contractual/QCS specifications and safety and health risk assessments.
- Maintain records for daily activities on site including progress photos and ensure they are readily available for inspection as and when required.
- Prepare surveillance report(s) for deficiencies of work found at site and nonconformance reports (NCR) if required in view of the development of events.

#### **3.Sr Mechanical Engineer.**

*At Metag Insaat Construction (KSA). 10-08-2018 to 07-08-2019*

##### **Duties & Responsibility as a Project Engineer:**

- Identify and quantify project needs and assist in development of detailed specifications for projects

- Work with contractors to determine scope of work and timelines
- Provide input and recommendations for project designs
- Prepare detailed estimate
- Review and evaluate contractor proposals
- Develop and manage budgets
- Responsible for hiring and managing staff and subcontractor
- Manage project schedules
- Promote awareness of construction standards and best practices
- Develop and maintain productive relationships with clients
- Coordinate scheduling, communication, and personnel needs with clients
- Assist with preconstruction, construction, and post construction activities, including bid walks, preconstruction walks, in-progress site visits, punch walks, and construction closeout
- Coordinate material deliveries and ensure all materials on hand match the plan and specifications
- Maintain and update SOW and preconstruction documents
- Document quality assurance and safety inspections
- Prepare original and backup records, tables, diagrams, and drawings
- Prepare, schedule, and supervise field surveys and inspections of construction work.

#### **4. Mechanical Technical Engineer.**

*At Azmeel Contracting Company (KSA). 08-01-2013 to 31-08-2018*

##### Duties & Responsibility as a Technical Engineer:

- Review design of (HVAC, Fire Fighting, Plumbing) submitted by the designer and make sure that they are as per the latest codes. (UPC/IPC, Ashrae, & Saudi Aramco Standards)
- Attending weekly coordination meeting with other discipline leads and made decisions on any coordination issues raised during design stage for any architectural changes
- Propose alternative design solutions to render the projects viable and within allocated budget.
- Achieve a detailed understanding of the contract (Drawings and specifications).
- Validate design issues related to MEP and suggest alternative solutions.
- Review shop drawings prepared by draftsman against the design [IFC] drawings for compliance with the Design intent.

#### **5. Mechanical Site Engineer.**

*At Dew Point HVAC System-Mumbai (India). Jun 2012-Nov 2012*

#### **6. Mechanical Site Engineer.**

*At Quiet Cool Electronics Pvt. Ltd-Mumbai (India). Feb 2011-Jun 2012*

##### Duties & Responsibility as a site Engineer:

- Preparing take offs based on shop drawing and to verify with bill of quantities to make procurement request of material for execution of Work.
- Erection/Installation of complete HVAC, Plumbing & Fire Fighting System,
- Supervise & commission the installations being executed at site promptly & Efficiently by a team of skilled foremen & workers.
- Raising RFI (Request for Inspection) For the Completed Task.
- Coordinate the works to ensure successful project hand-over
- Prepare project reports (written and photographic) on progress of works, quality and technical conformance of the works, safety and Other matters
- Attend technical and progress meetings with the client's representative
- Identify issues and risks that need to be brought to the attention of senior project management as necessary
- Review as built and O&M manuals for completeness Assist Quantity Surveyor in the assessment of contractor's claims for variation to contract.

#### **7. Part Time Site Engineer**

*Asian Builders, Kalaburagi Karnataka India. June 2008- Feb 2011 (India)*

## **Projects handled:**

### **1. Shura Island - Red sea, Umluj KSA.**

Client Red sea development

Consultant Atkins

Shura is the main hub island at The Red Sea with 11 world-class resorts, luxury marinas, an 18-hole championship golf course, entertainment, restaurants, and leisure facilities set to open in 2025. With a natural dolphin shape, the island is one of 92 in our archipelago and home to stunning vistas, incredible fauna and flora, and beautiful wildlife.

### **2. Saudi Aramco Home Ownership Project, Jubail.KSA**

Client: Saudi Aramco

Consultant: Al Hamdan Consulting Office.

This Project Consists of 344 Villas and 2 Masjids

### **3. Harbor Buildings Rectification Project (KAUST-THUWAL KSA)**

Client: KAUST

This project consists of 65 residential buildings, 4 floors each.

### **4. Aramco Bachelor Housing Project, Yanbu. KSA (Under Royal Commission)**

Client: Saudi Aramco / Royal commission

This project consists of 5 residential buildings, 2 floors each.

### **5. Sharma complex Tabuk.KSA**

Consultant: Saudi Diyar Consultant.

Sharma Complex site 2 consists of 5star hotel, 4star hotel, STP, RO plant and chiller plant

### **6. Yasref Housing Project, Yanbu. KSA (Under Royal Commission)**

Client: Yasref

Yasref housing is a (LSTK, EPC) project with a cost of 950 Million SAR Composed of 208 Villas, Recreation Centre and a Mosque.

### **7. Jeddah Gate Lot- E3, Jeddah KSA**

Client: Emaar Middle East.

Jeddah Gate Lot-E3 composed of 3 high rise towers of 21 floors each.

### **8. National Guard Family Compound, Thuwal-Jeddah.**

NGFC is a (LSTK, EPC) Precast project with a cost of 1.3 Billion SAR, the lot footprint is 72.5 hectares and the total Built-up residential area is 170,000 m<sup>2</sup> composed of 448 units of villas for soldiers and 52 villas for Officers.

Following scope for Infrastructure:

Storm water Drainage system, Sewage system and Domestic & Irrigation water system.

### **9. Information Technology & Communication Complex-Phase-II, Riyadh-KSA.**

Client: Public Pension Agency

ITCC is 2.3 Billion SAR project, composed of 105 villas, 150 Apartments (6 floors each with basement and ground floor parking facility), Schools, mosques Commercial Complex, Sports Club and swimming pool. Has a facility of Automatic waste collection system (garbage chute), waste water recycling system and a district cooling plant with intermediate heat exchangers.

References available on request.

Aqeel Ahmed