

## About Me:

As a driven Technical Engineer with a steadfast commitment to excellence in the Mechanical Engineering sector, I am eager to expand my expertise and apply my diverse skill set to contribute to the success of a dynamic company. My career objectives are rooted in a dedication to continuous learning, hard work, and unwavering perseverance. I am passionate about leveraging my technical abilities and experience in construction to foster collaborative teamwork and drive collective growth. My goal is to establish myself as a pivotal asset within the engineering field, ensuring that my professional development aligns with the advancement of the organization I represent.

### Training Manufacture Visit.

1. Aosh Confined Space (Training)
2. HDPE Pipes(Butt-welding training)(Al wassail.
3. Ductile Iron pipes & flanges welding & produce (Amiantit)
4. PMP Certification Training.
5. Empowering Project Managers
6. ISETIA.

### SKILLS:

- Navies works & Auto CAD.
- Computer Language: Visual Basic. ERP system
- MS – Office:
- Operating System : Vista & Windows7,10,11
- ASHRAE Duct Fitting. Database.
- ESP Calculation.
- Estimation and Quantity takeoff.
- Tendering.
- Installation of MEP Services.
- Maintenance of HVAC System.

### ACTIVITIES

- Sport. ...
- Foreign languages. ...
- Volunteering and fundraising. ...
- Job-specific activities.
- Clubs/ Organizations/ Societies. ...
- Peer Tutoring. ...
- port. Foreign. languages. Volunteering. and fundraising. ...
- Job-specific activities.

Senior Mechanical Estimation Engineer (Tendering Department)

Eng. As if Ali Senior Mechanical Engineer 13 Years' Experience. Leed, ASME, PMP, & Saudi Aramco Approved.

#### Personal details

Name: Eng. As if Ali  
Marital Status: Married  
QAMA Status: Transferable  
Driving License: Valid

 Saudi Arabia, Riyadh, 12211, Saudi Arabia

 00699590036819

 [a.alijatoi800@gmail.com](mailto:a.alijatoi800@gmail.com)

### Education and Qualifications

Bachelors of Mechanical Engineering.

DAE Associates Engineer Diploma of Mechanical Engineering.

### Membership. Registration and Approvals.

Saudi Engineering Council.

PMP, Project Management Professional.

ASME American Society of Mechanical Engineers.

LEED Green Associate.

Approved by Saudi Aramco.

### Acquired Standards Knowledge.

API, ASTM, ANSI ASME, ASHRAE, SMACNA, AND UPC, IPC & SAUDI ARAMCO & INTERNATIONAL STANDARD. PIPING (DUCTILE IRON, CAST IRON BLACK STEEL, CARBON STEEL, STAINLESS STEEL, HDPE FRP GRP PIPES & MANHOLES, AND MECHANICAL CODES PIPINGS MATERIALS WELDING, FABRICATION.

### Work Experience

AlBawani Head Office Tendering Department

Riyadh  
Sep 2022- Present

#### Senior Mechanical Estimator

##### Responsibilities and Duties.

##### 1. Tender Documentation and Preparation:

Review tender documents to understand project requirements, technical specifications, and scope of work. Provide technical inputs and assist in drafting the engineering sections of the tender.

Evaluate project requirements to prepare accurate cost estimates, material lists, and resource requirements. Ensure all technical and engineering standards are met in the proposal.

##### 2. Design and Technical Analysis:

Conduct engineering analyses to ensure the feasibility of proposed solutions.

Create or modify mechanical designs, such as system layouts, machinery, equipment, and structural components, in line with client needs.

Perform technical calculations (e.g., load analysis, stress analysis, heat transfer) and simulations.

Ensure compliance with relevant mechanical codes and standards (e.g., ASME, ISO).

##### 3. Cost Estimation and Budgeting:

Assist in preparing detailed cost estimates, including material, labor, and equipment costs.

Evaluate different procurement options and their cost implications.

Analyze the cost vs. benefit for mechanical solutions and suggest alternatives where necessary.

##### 4. Vendor and Supplier Interaction:

Liaise with vendors and suppliers to gather quotes for materials, machinery, and equipment.

Assess the technical specifications of vendors' products to ensure they meet project requirements.

Ensure that supplier proposals align with engineering standards and project timelines.

##### 5. Project Scheduling and Planning:

Coordinate with project management teams to develop timelines for mechanical engineering tasks.

Ensure that tender timelines are met and that all engineering deliverables are ready for submission.

##### 6. Risk Assessment and Mitigation:

Identify potential technical and engineering risks in the project and propose mitigation strategies.

Assess the impact of mechanical designs on the overall project schedule and cost.

Provide recommendations on how to handle unforeseen challenges in project execution.

**Al Bawani.**  
**Client Saudi Aramco Project**  
**Saudi Aramco Innovation**  
**Center**  
Dhahr  
Feb 2020- Sep 2022

**Al Bawani. Client Saudi**  
**Aramco. Project Mechanical**  
**Engineer Contractor Al**  
**Bawani- Client Saudi Aramco**  
**(Project National Guard**  
**Family Compound) (NGFC Feb-**

#### **7. Technical Support and Clarifications:**

Provide technical clarification and support during the tender process, especially when responding to queries from clients or stakeholders.

Offer solutions to address any technical challenges raised by the client or team during the tender stage.

#### **8. Collaboration with Cross-functional Teams:**

Work closely with other engineering disciplines, procurement, and project management teams to ensure that all tender specifications are met.

Attend meetings with clients, consultants, and internal teams to discuss project requirements, tender details, and updates.

#### **9. Compliance and Documentation:**

Ensure compliance with local regulations, international standards, and industry-specific codes in all technical submissions.

Prepare and maintain accurate documentation related to tenders, including technical drawings, specifications, and calculations.

#### **10. Post-Tender Support:**

Assist in the transition from tender phase to project execution, ensuring that the design and technical aspects align with the bid proposal.

Monitor the implementation phase to ensure that mechanical systems are built according to the tendered specifications and budgets.

#### **Lead Mechanical Engineer**

- Expertly managed all technical and design aspects of mechanical works, liaising with clients, designers, manufacturers, and subcontractors.
- Developed comprehensive Material Requisition Packages (MRP) for project procurement.
- Conducted meticulous Technical Review & Verification (TRV) to ensure design integrity.
- Prepared detailed Non-Material Requirements (NMR 601, 602 & 603) for project compliance.
- Coordinated with designers and manufacturers for the approval of critical equipment, including AHUs, FCUs, chillers, and various pump systems.
- Ensured material compliance with industry standards and project specifications through rigorous material submittal reviews.
- Authored method statements for key site activities, enhancing operational clarity and efficiency.
- Validated engineering calculations and technical documentation, upholding the highest quality standards.
- Innovated cost-effective design solutions, optimizing subsea intervention standard products.
- Led the full lifecycle of new product development, from initial design to manufacturing and shipment.
- Oversaw the review of shop drawings and method statements, guaranteeing adherence to project specifications.
- Demonstrated exceptional knowledge of mechanical, fire protection, and plumbing codes.
- Facilitated seamless collaboration between Mechanical Engineering, Manufacturing, Sourcing, and Quality Engineering teams.
- Prepared comprehensive compliance sheets and Testing & Commissioning packages, ensuring project excellence.

#### **Mechanical Engineer**

- Expertise in preparing material submittals, technical queries, and securing approvals from Saudi Aramco.
- Proficient in creating shop drawings, red-line drawings, and as-built drawings.
- Skilled in planning and executing HVAC systems, including

**2016-Feb-2020. Thuwal).**

**Jeddah**

**Feb 2016- Feb 2020**

chillers, pumps, cooling towers, heat exchangers, and various air handling units.

- Experienced in implementing domestic water systems, drainage systems, and fire protection systems, with a focus on piping and valves.
- Committed to project execution in accordance with approved drawings, maintaining quality standards, and adhering to safety requirements.
- Conducted meticulous site supervision and inspections of mechanical installations.
- Participated in progress meetings with consultants and contractors to ensure timely site work advancement.
- Demonstrated deep knowledge of mechanical equipment installation and various steel pipe types, including ductile iron and black steel.
- Proficient in diverse connection techniques, such as welding, flanging, grooving, and threading.
- In-depth understanding of sensor installations, including dry running, pressure, flow, and level sensors.
- Skilled in installing puddle flanges, flange adapters, and anti-vortex plates.
- Technical expertise in booster pumps, submersible pumps, and jockey pumps installation.
- Profound knowledge of testing and commissioning for ductile iron domestic and irrigation networks.
- High expertise in HVAC site and office work, managing site teams, and ensuring compliance with SMACNA and ASHRAE standards.
- Proficient in plumbing equipment, piping materials, and underground utilities.
- Strong experience in sanitary works, building services, and plumbing, with the ability to manage multiple projects simultaneously.
- Excellent communication skills and adept at working in high-pressure environments.
- Ensured accurate completion and approval of as-built drawings.

**Samsung C & T/ CCE.JV**

**CLIENT: Tadawul Real Estate LLC (TREC)**

**Riyadh**

**Oct 2014- Mar 2016**

### **Mechanical Engineer**

- Spearheaded project planning and site organization to ensure adherence to strict deadlines.
- Led the planning, execution, testing, and commissioning of comprehensive HVAC systems, including chillers, pumps, cooling towers, heat exchangers, AHUs, FCUs, package units, ECUs, CCU/CRAC, VAVs, VRFs, fans, and associated piping.
- Directed the supervision and execution of domestic water systems, drainage systems, and fire protection systems (wet system, NOVEC & foam system, pre-action system), encompassing piping and valve installations.
- Coordinated multidisciplinary site activities, integrating HVAC, electrical, firefighting, plumbing, and drainage operations.
- Managed and supervised critical services including HVAC, plumbing & drainage, fire fighting, and building management systems (BMS).

**(BESIX, a Belgian CO. Joint venture of Al-Muhaidib Group of Contracting Companies.**

**Jeddah**

**Jun 2013- Oct 2014**

### **Mechanical Site Engineer**

- Proficient in the execution of underground utilities and plumbing systems, including CPVC, PPR, and copper piping.
- Skilled in water supply and drainage vent network installation within buildings, adhering to industry standards.
- Demonstrated expertise in sanitary works, building services, and plumbing, with a focus on pumping, storm drainage, and vent systems.
- Proven ability to manage multiple projects concurrently and perform effectively under high pressure.
- Excellent communication skills, both verbal and written, with a track record of approved as-built drawings.
- Diligent in material procurement and coordination with construction, testing, and QC departments for test

preparation.

- Specialized in all plumbing systems, piping work, and plumbing fixtures, including fire protection systems.
- Adept at installing galvanized pipes, sprinklers, zone control valves, and gate valves using grooved and screwed joints.
- Expert in HVAC site and office operations, including duct work installation and chiller water lines.
- Knowledgeable in installing AHUs, FCUs, mini-split units, and exhaust fans, ensuring compliance with SMACNA and ASHRAE standards.
- Responsible for monitoring equipment erection and installation, including air-cooled chillers and thermal tanks.
- Proficient in reviewing shop drawings for compliance, preparing installation method statements, and ensuring QA/QC alignment.
- Ensures HVAC and plumbing work on-site adheres to specifications, method statements, and inspection and test plans.
- Oversees the layout and installation of HVAC equipment, ensuring design implementation and quality control.
- Competent in infrastructure piping, including HDPE pipe installation for domestic and irrigation systems, with hydro testing expertise.
- Skilled in installing FRP pipes, GRP manholes, and ductile iron fittings for sewer and storm networks, ensuring gravity test compliance.
- Effective daily site supervision, progress monitoring, and manpower management to maintain project schedules and resource allocation.

**(FND) Fahim, Nanji & Desouza  
(PVT) Limited Consulting  
Engineers.**

Karachi

Feb 2012- Apr 2013

#### **Mechanical Site Engineer**

- Spearheaded project planning and site facility organization to ensure adherence to strict deadlines.
- Oversaw execution, testing, and commissioning phases, including design and shop drawing reviews and technical submittal approvals.
- Provided on-site technical support and guidance to engineering teams.
- Coordinated multidisciplinary activities, including HVAC, Electrical, Firefighting, Plumbing & Drainage, and BMS systems, ensuring seamless integration and functionality.