

Shafqat Anjum Afridi, PE

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Lead/ Senior Mechanical Engineer – (Packaged/Static Equipment)

Profile Summary

18 years' experience of Packaged & Static Equipment Design, commendable knowledge of Mechanical design, client & vendor engagement, estimations & proposals, Time and resource management. strong engineering and technical skills and an inherent ability to execute multiple projects and lead diverse teams.

- Excellent knowledge of the fundamental requirements of the mechanical engineering, and the basic requirements of other engineering fields.
- Excellent knowledge of Engineering codes & standards and application of statutory and regulatory specifications/ requirements.

Skills & Strengths

Static Equipment Design | Packaged Equipment | Mechanical Design | Documents Review | Technical & Commercial Bid Evaluation | Proposals & Estimation | Piping Design | Skid Design | Structural Design | Mentoring | Resource Management | Time management | Team Management | MS Office | Aconex | AutoCAD | Mathcad.

Pressure Vessels | Heat Exchangers | Steam Boiler | Hot water Boiler | API 650/ 620 Storage tanks | Power & Process Piping | Steam & Condensate Systems | LPG/SNG Systems | Surge Vessels | Air Receivers | Aux Boilers | Water Treatment Package | Demin Package | Condensate Polishing Package | Steam Accumulators | Deaerators | Flash Vessels | Coalescer | Economizers | Columns | Air/water Pre Heaters | KO Drums | Feed Water Heaters | Filter Vessels | Air cooled Heat Exchangers | Rectangular Tanks | Stacks/Chimney | Air & flu ducting | Piping Structures and Skids | Steel Structures | ASME/ANSI, EN/BS, API, UL, TEMA, NFPA, WRC, NACE, PIP, ARAMCO, SABIC, SEC Codes & Standards.

Career Snapshot

| Position | Organization | Tenure |
|---------------------|--|-------------|
| • Senior Mechanical | Worley, Saudi Arabia | 2023-todate |
| • Lead Mechanical | Abahsain Specialized Industrial Co. Ltd, Dammam, KSA | 2021 – 2023 |
| • Lead Mechanical | Al Saghyir Boilers & Pressure Vessels Co.– Riyadh, KSA | 2012 - 2018 |
| • Senior Mechanical | DESCON Engineering Ltd. Lahore, Pakistan | 2010 - 2012 |
| • Senior Mechanical | Directorate of Nuclear Power Engg, PAEC - Islamabad | 2005 - 2010 |

Experience & Responsibilities

- Provide mechanical engineering services on medium, large and mega projects to organization and its customers', including Design specification, Datasheets, Technical Bid Evaluation, Clients & Bidders technical coordination, RFQ & RFP Documentation, Vendor Document Review, Technical assistance of Installation & Commissioning team.
- Ensuring that the mechanical engineering services meet organization, its customers' and applicable statutory and regulatory specifications.
- Participate in relevant meetings, prepare progress reports and comply with required checking procedures.
- Ensure the project scope is clear and that changes comply with project change management processes.
- Provide advice during procurement, construction and commissioning activities. For example, requisitions, technical bid evaluations, purchase order preparation and vendor documents review.
- Act as the mechanical engineering Lead on specific projects.

- Outline project requirements, assign tasks and supervise progress.
- Proactively resolve any discrepancies between organization and its customer's requirements.
- Keep up-to-date with the latest developments and technical innovations in mechanical engineering and inter discipline coordination.
- Mentor, assist and support junior personnel within the mechanical engineering team.
- Communicate effectively with the mechanical engineering team and project stakeholders, including the customer.
- Identify issues and problems, develop appropriate solutions, and ask for assistance when required.

Key Projects

Worley – KSA

- 1145 m³/hr. Water Treatment Package for Ma'aden Phosphate 3 Phase 1 Wad Al Shamal, KSA.
 - 290 m³/hr. Demin Water Package for Ma'aden Phosphate 3 Phase 1 Wad Al Shamal, KSA.
 - 110 m³/hr. Condensate Polishing Package for Ma'aden Phosphate 3 Phase 1 Wad Al Shamal, KSA.
 - 50 TPH. Dual Diesel/Gas Fired Auxiliary Boiler Package for Ma'aden Phosphate 3 Phase 1 Wad Al Shamal, KSA.
 - 88 m³/hr. Molten Sulphur Polishing Filters Package for Ma'aden Phosphate 3 Phase 1 Wad Al Shamal, KSA.
 - 2 No. Condensate trim coolers (Plate Heat Exchangers)
 - 2 No. Condensate Flash Coolers (Air Cooled Heat Exchangers)
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Abahsain Specialized Industrial Co. Ltd – Dammam

- Successfully completed 12 Steam Condensers for Saudi Aramco Khurasaniya Plant and 10 No Tube Bundles for Saudi Aramco Abqaiq Plant.
 - 35 compressor lube oil coolers (LOC) for Marjan project and 6 No LOC for Barri Project. 3 No Tube cells/ bundles for Abqaiq Plant.
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Al Saghyr Boilers & Pressure Vessels Co., Riyadh

- 20 No. Boiler House turnkey projects in KSA.
- 350 No. Pressure Vessels and Storage Tanks.
- 26 NO. LPG/SNG Systems in KSA.

DESCON Engineering Ltd. Lahore

- 80TPH, 22Barg WHRSG x 2 Nos., SADARA, ARAMCO, Saudi Arabia.
- 4TPH, 14Barg WHRSG, Pak Arab Refinery Ltd. Pakistan.
- 120TPH, 32Barg Bagasse Fired Boiler, Adam Sugar Mills Ltd. Pakistan.
- 20TPH, 18Barg, FTB, Nestle Pakistan Ltd.
- 55TPH, 80Barg, Coal Fired Boiler, Engro Foods Ltd. Pakistan.
- 15TPH, 10Barg, Traveling Grate Coal Fired Boiler, Younas Textile Mills, Karachi, Pakistan.
- 140TPH, 66Barg, Bagasse Fired Boiler, United Sugar Mills (JDW), Pakistan.
- 60m Height, ID2.2m Chimney for a Chemical Industry in Kazakhstan

Directorate of Nuclear Power Engineering, PAEC - Islamabad

- Piping and Piping support for the Secondary cooling water system and firefighting water system (FFS).
- Hydro-pneumatic tanks for FFS and fuel oil tanks and piping for FFS emergency diesel generators.
- Emergency diesel generators fuel oil tanks and piping.
- Auxiliary steam Boilers and their associated systems Piping and Equipment i.e., Blowdown Tank, fuel oil tanks, flash vessel, detractor, chimney, and exhaust vents etc.
- Water filtration & purification system equipment & piping. Including sand filters, charcoal filters & mixed bed filter vessels.

Engineering Software

Proficient in using engineering software such as:

- Intergraph PV Elite.
 - Codeware COMPRESS
 - AMETank & AMEPreVA
 - Meca Enterprises MecaStack for designing self-supported and guy wire supported steel stacks.
 - HTRI
 - PipeFlo Professional.
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- AutoCAD
- MathCAD

Academics & Credentials

Formal Education

- Master of Engineering in Nuclear Power - **NED University of Engineering & Technology Karachi**
- BSc in Mechanical Engineering - **University of Engineering & Technology Peshawar**

Professional Certifications

- Certificate of Marine Engineering in Ship architecture design and operations – **Institute of Maritime Studies, Lahore**
- Certified ISO 9001 2015 Internal Auditor

Personal Development Courses

- Management & Leadership - Growing as a Manager – **The Open University** (Online)
- Management Development Program-Level 1 - **DESCON Engineering Ltd**, Lahore.
- Analysis & Design of Industrial Steel Structures - **National Institute of design & Analysis, Lahore**
- CADWorx Plant Design Software. **PAEC-PNRA, RNSD-III, Karachi**
- Total Productive Maintenance - **Pakistan Engineering Council, Islamabad**

Membership & Association

- Member Pakistan Engineering Council (PEC MECH/15809).
- Member Saudi Council of Engineers (SCE 114196)