

Khalid Iqbal *Mechanical Engineer*

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📍 Exit-18 Istanbul Road Al Meshail Near A-Fozan Masjid Riyadh KSA

🚗 Valid Ksa Driving Licence 📄 Iqama status; Transperable

🛡️ Membership Status; Valid Saudi Council of Engineers



📁 Professional Experience

1. Worked as **Mechanical Engineer** in **Thabat Company** from 2024 to 2025
2. Worked as **Mechanical Engineer** in **Rezayat Company** from 2020 to 2023
3. Worked as **Mechanical Design Engineer** in **Windmason Company** from 2018 to 2020

🎓 Qualification

High Secondary School Certificate (HSSC), *Peshawar Public School and College, Peshawar*

Bachelor of Mechanical Engineering, *University of Engineering and Technology Peshawar*

📁 Project Executed in HVAC

Armed Forces Medical Services

Location: Riyadh, Saudi Arabia

Capacity: 3000 TR (Air Cooled Chillers)

Riydah Hospital Near Abdullah Read

Location: Riyadh, Saudi Arabia

Capacity: 2500 TR (Air Cooled Chillers)

King Salman Naval Base

Location: Riyadh

Capacity: 1500 TR (Air Cooled Chillers)

☆ Certifications

Diploma in HVAC Fire Fighting & Plumbing Systems Designing & Installation,
from SM TECHNO ENGINEERS, Hyderabad.

Diploma in AutoCAD 2D/3D, *from SM TECHNO ENGINEERS.*

Diploma in FEA & CVD Simulation, *Fron DICE Autorrolive Centre Karachi.*

☆ RESPONSIBILITIES HANDLED AS A MECHANICAL ENGINEER:

- Execute and Supervision of HVAC CHW lines, Duct, Fire Suppression lines and Plumbing lines installation as per shop drawings.
- Get approved HVAC Shop Drawings, MEP- Coordination Drawings, Bill of Quantities, Technical Submittal and Project Specification from Design Departments.
- Ensure all MEP installations comply with relevant laws, regulation, and codes, including safety standards.
- Review MEP design documents and shop drawings for compliance with codes and regulations.
- Monitor the installation process of MEP systems, ensuring that they are installed correctly and function as intended.
- Preparation of final Test Reports, as built drawings, Operation & Maintenance manual and handing documents of the Project to Client.
- Resolve any technical issues or conflicts that arise during the installation of MEP systems.
- Oversee the day-to-day operations on the construction site, ensuring that MEP installations are carried out according to specifications and standards
- Preparation and Monitoring of project schedule & project trackers for Shop drawings. Material delivery & work progress.

☆ RESPONSIBILITIES HANDLED AS A DESIGN ENGINEER:

I was involved in quantity take-off and MEP Systems Designing and installations for multistoried building. The duties and responsibilities which I can handle independently and give the best output to the company are as given below.

- Design and develop MEP systems, including HVAC, Fire Fighting, and Plumbing, ensuring compliance with codes and standards (such as IPC, UPC, ASHRAE, IBC, NEPA).
- Air Condition & Heat load calculation using (Manual, E20 Chart, HAP 4.41, Carrier Block load 4.15).
- Duct & Pipe Designing using (Chart, Manual ductlator, Duct sizer, Pipe sizer).
- Prepare Engineering Designs & Calculation for Water Supply Distribution, Drainage, & Waste Systems.
- Conduct water demand calculations and hydraulic analyses to assess water supply requirements for various fixtures and systems.
- Design and implement fire detection and suppression systems, including sprinklers, alarms, and extinguishers.
- Choose appropriate piping materials and sizes based on the specific needs of the building and its occupants.
- Prepare detailed design drawings, specifications, and technical documentation for construction and compliance verification.
- Work closely with architects, structural engineers, and other professionals during the design phase to integrate MEP systems seamlessly into the overall building design.
- Monitor installation and commissioning of MEP systems on site, ensuring adherence to design specifications and quality standards.