

SYED KHAJA HUSSAINI

MECHANICAL ENGINEER

HVAC/FIRE FIGHTING/PLUMBING **(TRANSFERABLE IQAMA)**

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Location : Riyadh, Saudi Arabia

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Looking for employment opportunities in Saudi Arabia

Nationality : Indian

Marital Status : Unmarried

EDUCATION :

Bachelor's in Mechanical Engineering

Visvesvaraya Technological University (VTU),
Belagavi, Karnataka.

CERTIFICATES :

- Certified in HVAC, Plumbing from KGMECH Electro Mechanical Pvt Ltd.

SOFTWARE APPLICATIONS :

- HAP 4.9 (Hourly analysis program)
- Carrier E20 load form.
- McQUAY Duct Sizer & Pipe Sizer
- Beta (Grill & Diffuser selection)
- ASHRAE Software
- ESP Calculation

OBJECTIVE :

Seeking a challenging position in the field of Engineering & Technology where I can utilize my skills and abilities for the growth of the organization, as well as professional growth while being resourceful, innovative and flexible.

PROFESSIONAL SUMMARY :

Dynamic and detail-oriented Mechanical Engineer with 3 years of experience in designing, implementing, and managing **Mechanical, HVAC, Firefighting, and Plumbing** systems for residential, commercial, and industrial projects. Proficient in delivering energy-efficient and cost-effective solutions while ensuring compliance with industry standards and regulations.

Ability to handle Site erection/Inspection of HVAC, Firefighting system.

WORK EXPERIENCE : (3 years)

➤ **Majdoul Tower (Riyadh, Saudi Arabia)** **Mechanical Site Engineer**

- Supervised the installation of the VRF (Variable Refrigerant Flow) system, ensuring proper connection between VRF outdoor units and indoor FCUs (Fan Coil Units).
- Conducted VRF system inspection and pressure testing to ensure leak-free refrigerant piping and

SKILLS :

- Problem Solving Skills
- Ability to handle site
- Quantities takeoff
- Firefighting & Plumbing Design
- Drawing Review
- Drawing Detailing
- Decision Making
- Situational Analysis
- Team Work
- Multi-Tasking
- Planning Skill
- Critical Thinking
- Leadership
- Time Management
- Report Writing
- Air Flow Schematics
- Car Parking Ventilation
- Staircase, Lift Well Pressurization

COMPUTER SKILLS :

- AutoCAD
- MS Office
- Revit
- Catia V5
- NX CAD
- Zoom
- Social Media

CODES & STANDARDS :

- ASHARE
- SMACNA
- NFPA
- SBC 301 & 304
- SBC 701 & 801

system performance.

- Managed the installation of HVAC ducting, including supply air, return air, exhaust, and fresh air ducts as per approved shop drawings.
- Ensured all ductwork was installed in accordance with SMACNA standards, including proper insulation, support, and alignment.
- Oversaw the installation of Volume Control Dampers (VCDs), air grills, diffusers, and registers in coordination with ceiling layouts.
- Checked and ensured proper installation of flexible ducts and insulation to maintain system efficiency and prevent energy loss.
- Coordinated HVAC ductwork with other MEP services to avoid clashes and ensure smooth installation.
- Supervised the complete installation of the fire fighting system according to NFPA standards and project specifications.
- Monitored installation of fire fighting piping, valves, hose reels, and brackets as per layout.
- Oversaw installation of all types of fire sprinklers, including upright, pendent, and concealed heads in correct locations.
- Performed hydrostatic pressure testing of fire fighting lines and arranged inspections with QC team for approval.
- Ensured all work was executed following safety guidelines, and made sure all workers used proper PPE and followed site safety protocols.

➤ ***Hamad A.Aziz Al-Obaidan (Saudi Arabia)*** ***HVAC Design Engineer***

- Performed HVAC load calculations using HAP, also design the complete HVAC system for villa and building projects.
- Performed Duct design according as per McQuay Software.
- Calculated the Pipe Sizing for the chilled water system according to the GPM. & performed Chilled water pump head calculations.

PROJECTS :

- Majdoul Tower
- E max
- Tamami Group
- Dwarka
- Orbit, Gowra Groups
- Fountainhead
- Gowra Grand

LANGUAGES :

- English
- Hindi
- Urdu

Hobbies :

- Cricket
- Football
- Fitness
- Adventure
- Tourism

➤ ***AZ-Air Conditioner Pvt.Ltd (India)*** ***Mechanical Design & Site Engineer***

- Developed detailed HVAC system design based on building size, usage, and climate condition, ensuring compliance with local building codes and energy efficiency standards.
- Performed heating and cooling load calculation to determine the correct size of HVAC equipment.
- Design efficient ductwork a piping layouts for proper air distribution and ventilation, ensuring balanced airflow and compliance with ASHRAE and other standards.
- Selection appropriate HVAC equipment, such as air handling units (AHU), chiller, heat exchangers.
- Conduct detailed site surveys and ensure all design comply with relevant building regulations and industry standards.
- Design and install drainage systems to remove wastewater and sewage, ensuring proper slope, venting, and adherence to plumbing codes.
- Specify the installation of plumbing fixtures (sinks, toilet, and showers) and ensure they are correctly connected to the water supply and drainage systems.
- Performed hydraulic calculations for water distribution and drainage systems.
- Managed project timelines, budgets and resources.
- Installed fire fighting pipes (MS/GI) as per approved drawings with proper supports and fittings.
- Selected pipe sizes based on sprinkler flow and pressure requirements to ensure proper water supply.
- Installed different types of sprinklers like upright, pendent, and concealed based on ceiling design.
- Carried out hydraulic pressure testing at 200 psi for 2 hours to check for any leakage.
- Guide the draughtsman for the preparation of drawings as per site condition and also for the final as built drawings.