



SHAIK ABRAR MAJID

MECHANICAL ENGINEER

PROFILE

Detail-oriented MEP/Fire & Electrical Systems Engineer with nearly 2 years of professional. Skilled in designing, drafting, and coordinating fire protection, electrical backup, HVAC, and plumbing systems using Revit MEP and AutoCAD. Experienced in preparing BOQs, load calculations, schematic diagrams, and as-built documentation. Strong coordination skills with multidisciplinary teams for project execution.

WORK EXPERIENCE

Position: MEP design engineer

Company: AL Kurdi Trading & Contracting.

Location: Riyadh

- Designed and drafted fire protection systems, including sprinklers, hydrants, and fire alarm layouts, ensuring compliance with NFPA standards.
- Developed electrical layouts for backup systems (UPS, generators, switchboards) in residential, commercial, and institutional projects.
- Created HVAC ducting and plumbing layouts as part of integrated MEP designs for large-scale buildings.
- Performed heat load calculations, duct sizing, and pipe sizing for HVAC and fire systems to ensure efficiency and compliance with standards.
- Prepared equipment schedules, BOQs, schematic diagrams, and shop drawings for tender submission and project execution.
- Coordinated with architects, structural engineers, and other consultants to resolve clashes and integrate systems seamlessly.
- Assisted site engineers with installation guidance, troubleshooting, and technical clarifications for fire and electrical systems.
- Participated in client meetings and design review sessions, providing technical explanations and design updates.
- Generated as-built drawings and compliance documentation for project handover and client approval.
- Contributed to project planning and scheduling, ensuring timely delivery of design milestones.
- Supported testing and commissioning of electrical backup and fire protection systems on-site.

Project: 6-Storey Commercial/Residential Building

Role: MEP Design Engineer

HVAC System Design

- Performed heat load calculations using HAP/Carrier software.
- Designed duct layouts for Air Handling Units (AHUs), Fan Coil Units (FCUs), and exhaust systems.
- Prepared chilled water piping layouts, valve schedules, and pump head calculations.
- Ensured HVAC design met ASHRAE and SMACNA standards.

Plumbing & Firefighting Design

- Designed water supply and drainage layouts for all floors.
- Planned vertical riser diagrams for hot & cold water distribution.
- Prepared firefighting system drawings (sprinklers, hydrants, pump room layout). Ensured compliance with NFPA and IPC standards.

CONTACT

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📍 Riyadh, KSA

📄 Iqama no. 2615230071
(transferable)

EDUCATION

- Bachelors in Mechanical Engineering.
- Diploma in CADD and application of HVAC, PLUMBING and FIRESERVICES.
- MSOffice (Excel, Word, Powerpoint)
- AutoCAD
- Revit MEP

SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English
- Hindi
- Telugu
- Arabic (Basics)

Electrical Coordination (Basic Level)

- Coordinated MEP services with electrical team for shaft and ceiling space allocation.
- Verified power requirements for mechanical equipment (pumps, AHUs, lifts).

Drawings & Documentation

- Developed detailed MEP shop drawings using Revit MEP and AutoCAD.
- Conducted clash detection and resolved coordination issues with structural/architectural drawings.
- Prepared as-built drawings for final project handover.

Site Coordination

- Supported site execution team with design clarifications.
- Conducted site visits to verify installation works matched design drawings.
- Assisted in material submittals and approvals from consultants.

KEY ACHIEVEMENTS

- Successfully delivered full MEP design package for a 6-storey building on schedule.
- Reduced drawing rework by 20% through proactive clash detection in Revit.
- Improved HVAC efficiency by optimizing duct routing and equipment sizing.
- Gained strong hands-on experience with Revit MEP, AutoCAD, and international codes (ASHRAE, NFPA, IPC, SMACNA).

DECLARATION

I hereby declare that the above-Mentioned information is true to the best of my knowledge and belief. Reference will be provided upon request.

Shaik Abrar Majid
Mechanical Engineer.