



## SHAIK ABRAR MAJID

MECHANICAL ENGINEER

### PROFILE

Dedicated and detail-oriented Mechanical (Infrastructure) Design Engineer with nearly 2 years of professional experience in designing and coordinating mechanical services for infrastructure utility networks. Skilled in preparing detailed layouts for water supply, drainage, firefighting, and utility systems, ensuring compliance with international standards (ASHRAE, NFPA, IPC, SMACNA). Strong expertise in Revit MEP and AutoCAD for design and coordination of multidisciplinary projects, ensuring accurate, efficient, and clash-free system layouts.

### WORK EXPERIENCE

#### MEP Design Engineer - Infrastructure Projects

Al Kurdi Trading & Contracting, Riyadh, KSA

Duration: 2023 - Present

- Designed and coordinated mechanical systems for large-scale infrastructure utility projects, including residential and commercial developments.
- Developed water supply, firefighting, stormwater, and sewerage networks, ensuring hydraulic efficiency and compliance with project specifications.
- Prepared pumping station layouts, valve chambers, manhole schedules, and pipe sizing using relevant codes and design software.
- Performed pressure drop and head loss calculations to support selection of pumps, valves, and equipment.
- Coordinated mechanical utilities with civil, electrical, and structural disciplines to prevent clashes and optimize routing.
- Prepared shop drawings, schematic diagrams, and as-built documentation using Revit MEP and AutoCAD.
- Assisted in HVAC-related infrastructure systems, including ventilation of pump rooms, substations, and utility chambers.
- Supported BOQ preparation, technical submittals, and material selection as per consultant and client requirements.
- Provided technical support to site teams, resolving design-related issues and conducting inspection visits for verification of ongoing work.
- Attended coordination meetings with consultants and contractors to review design progress and resolve interdisciplinary conflicts.

### CONTACT

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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
- HAP / Carrier Software

### LANGUAGES

- English
- Hindi
- Telugu
- Arabic (Basics)

## **PROJECT HIGHLIGHT**

Project: Infrastructure Utility Network & 6-Storey Commercial/Residential Building

Role: MEP Design Engineer

Responsibilities:

Delivered end-to-end design for water, drainage, firefighting, and HVAC utility systems.

Integrated designs through Revit 3D modeling and clash detection, improving project accuracy and reducing rework by 20%.

Ensured compliance with ASHRAE, NFPA, IPC, and SMACNA standards.

## **SKILLS**

Infrastructure Utility Design (Water, Drainage, Firefighting)

Pump Station Design & Equipment Selection

Hydraulic and Pressure Drop Calculations

Revit MEP & AutoCAD (2D/3D Drafting)

BOQ & Material Submittal Preparation

Project Coordination & Documentation

Load Calculation (HAP/Carrier)

Teamwork, Communication, and Leadership

## **KEY ACHIEVEMENTS**

DELIVERED COMPLETE INFRASTRUCTURE MEP DESIGN PACKAGES ON TIME AND WITHIN BUDGET.

IMPROVED COORDINATION EFFICIENCY USING 3D REVIT MODELING AND CLASH DETECTION.

ENHANCED SYSTEM PERFORMANCE AND COST-EFFECTIVENESS THROUGH OPTIMIZED ROUTING AND EQUIPMENT SELECTION.

## **Strengths**

- STRONG ATTENTION TO DETAIL AND ACCURACY.
- EFFECTIVE COMMUNICATION AND DOCUMENTATION SKILLS.
- ABILITY TO COORDINATE BETWEEN SITE AND OFFICE TEAMS.
- PROBLEM-SOLVING MINDSET WITH FOCUS ON QUALITY IMPROVEMENT.
- PROFICIENCY IN AUTOCAD, REVIT MEP SOFTWARES.

**Shaik Abrar Majid**  
**Mechanical Engineer.**