

MOHAMMAD RAFI

Senior Mechanical Engineer | Mechanical Manager

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Location: **Jeddah, KSA** | Visa Status: **Transferable Iqama**

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PROFESSIONAL SUMMARY

Specialized in Mechanical Engineering with over 19 years of experience in the MEP Construction Services, High Rise Commercial, Residential, District Cooling Plants, Five Star Hotels, Hospitals, Shopping Malls, Villa Compounds, Data Centers, Airport and Infrastructure Projects. Mastery in project stages from design to construction, combined with strategic focus on sustainability, positions our team to deliver outstanding results.

Expertise in HVAC, Plumbing, Firefighting, Chilled water network, ETS rooms, Pump Stations, TSE water network, Lift Stations, Potable water, Storm water, Irrigation water, Drainage discharge systems, Storage tanks and Treatment plants. With a strong track record in Design, Execution, Project delivery, Project Management & Construction Management of MEP works. Well-versed in Local, International codes & standards. Proven ability to lead cross-functional teams and manage multiple projects, Optimize project costs & ensure quality compliance. Lead involvement in Tendering, Value Engineering and Preparation of Contract Documents.

KEY SKILLS & EXPERTISE

- **Project & Construction Management** – Execution, coordination, and stakeholder communication.
- **MEP Systems Expertise** – HVAC, Plumbing, Firefighting, District Cooling Plants, MEP Infrastructure.
- **Mechanical Design & Estimation** – Value engineering, BOQ preparation, tendering, and budgeting.
- **Technical Standards & Compliance** – ASHRAE, SMACNA, NFPA, IPC, Saudi Building Codes.
- **Software Proficiency** – AutoCAD, Revit MEP, AI Tools, BIM, Oracle Aconex, MS Office & PM WEB.
- **Quality & Safety Compliance** – HSE programs, risk assessment, regulatory approvals.
- **Leadership & Team Management** – Training, mentoring, technical guidance, multi-discipline coordination, collaboration, effective communication, problem-solving skills and interpersonal skills.

PROFESSIONAL EXPERIENCE

Mechanical Manager (PMO) | Mohammad Al Habib Real Estate Investment Co.

Feb 2019 – Present | Riyadh, Kingdom of Saudi Arabia

Key Projects: The Village Mall & Business Hub, Hilton Garden Inn Hotel, La Palma Villa Compound

- Lead mechanical engineering for **high-value commercial, residential and Infrastructure projects**.
- Define Project's Requirements and Specifications, **Develop & Manage** the design from Concept to IFC.
- Oversee **MEP design, execution, and contractor management** from concept to handover.

- Manage the **design** and **procurement** processes for **commercial, residential, Infrastructure & district cooling projects**, ensured they meet **performance criteria and regulatory standards**.
- Implement **value engineering** to optimize costs while maintaining quality and compliance.
- Conduct **design reviews, risk assessments, project's time saving and technical evaluations**.
- Ensure project delivery aligns with **local and international standards**, project's budgets managing.
- Handover the completed **Project to End User** team and manage their **training program**.

Senior Mechanical Engineer (Project Manager – MEP) | ACES Project Management

Aug 2017 – Jan 2019 | Riyadh, Kingdom of Saudi Arabia

Key Projects: Saudi Telecom Company (STC) Data Centers, Technical Buildings

- Managed **MEP design, procurement, installation, and commissioning**.
- Conducted **design reviews, risk assessments &** ensured project delivery aligns with the **standards**.
- Coordinated with **clients, consultants, and contractors** to ensure smooth project execution.
- Applied **Value engineering** and **budgets managed**, optimized project schedule and **time saved**.
- Conducted **site inspections and technical evaluations** to meet design specifications.
- Led quality assurance and safety compliance across all mechanical works.

Senior Mechanical Engineer (PMC) | Dar Al Riyadh Consultants

May 2010 – April 2017 | Riyadh, Kingdom of Saudi Arabia

Key Projects: King Abdullah Financial District (40 high-rise towers)

- Supervised **MEP infrastructure, high-rise buildings, and district cooling plants**.
- Conducted **design reviews, risk assessments, and technical evaluations**.
- Ensured **mechanical design compliance** with project specs and international standards.
- Conducted **contractor evaluations, technical audits, and value engineering assessments**.
- Managed the **design** and **procurement** processes for **commercial, residential, Infrastructure & district cooling projects**, ensured they meet **performance criteria and regulatory standards**.
- Applied **Value engineering** and **budgets managed**, optimized project schedule and **time saved**.
- Coordinated with **clients, consultants, and contractors** to ensure smooth project execution.
- Conducted **site inspections and technical evaluations** to meet design specifications.
- Led quality assurance and safety compliance across all mechanical works.

Mechanical Engineer | Modern Contracting Co.

Nov 2007 – Feb 2010 | Riyadh, Kingdom of Saudi Arabia

Key Projects: PPA Offices, Ministry of Higher Education Head Office, Geant Mall, Al Aziziah Substation

- Prepared Mechanical Design concepts, design documents and coordination reports with other disciplines.
- Prepared Mechanical design, shop drawings, MEP BOQ, Specifications, equipment technical selection.

- Ensured mechanical design compliance with project specifications, local and international standards.
- Coordinated with the consultants, other contractors and client to ensure smooth project execution.
- Created MEP technical report according to site requirement and changes as per site coordination.
- Submitted site work and material inspections & technical evaluations for the site consultant approval.
- Monitor and control MEP work progress as per project schedule from project starting to handover.

Mechanical Project Engineer | Comfort Line System Pvt Ltd.

May 2006 – Oct 2007 | Hyderabad, India

*Nov 2005 – May 2006 (**Mechanical Project Engineer Trainee**)*

Key Projects: Hyderabad Intl. Airport, Ashoka Shopping Mall, BJN Business Hotel, GVK Hospital & Bio.

- Prepared Mechanical Design concepts, design documents and coordination reports with other disciplines.
- Prepared Mechanical design, shop drawings, MEP BOQ, Specifications, equipment technical selection.
- Ensured mechanical design compliance with project specifications, local and international standards.
- Created MEP technical report according to site requirement and changes as per site coordination.
- Submitted site work and material inspections & technical evaluations for the site consultant approval.
- Monitor and control MEP work progress as per project schedule from project starting to handover.

EDUCATION & CERTIFICATIONS

- Graduation: **Bachelor of Technology** (Bachelor's degree) in **Mechanical Engineering** – Jawaharlal Nehru Technological University, Hyderabad, India.
- Post Graduate Program in **Project Management** – The Institute of Management, Technology & Finance.
- **Professional Registration, Certification, Membership & Training:**
 - Mechanical Engineer – Saudi Council of Engineers (SCE # 95062)
 - Member – Institution of Engineering and Technology (MIET # 1101101904)
 - Sustainability, Six Sigma GB, ESG Professional, ISO 50001 Energy Management, ASHRAE, NFPA, ICC, Revit MEP, PMP, RMP, MEP AI Tools and Data Science.

PERSONAL DETAILS

- **Nationality:** Indian
- **Marital status:** Married
- **Date of Birth:** 08 September 1983
- **Visa Status:** Transferable Iqama | I'm available to start immediately
- **Languages:** English, Arabic, Urdu, Hindi, Telugu
- **Driving License:** Valid KSA & Indian Driving License