

Mohamed Galal

Mechanical Engineer | HVAC & MEP Systems

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Professional Summary

Mechanical Engineer specializing in HVAC and MEP systems with practical experience in healthcare and infrastructure projects. Experienced in mechanical system design, shop drawings preparation, quantity take-off (BOQ), pricing, material coordination, supervision of installation works, testing and commissioning support, and project handover according to project specifications and applicable standards.

Professional Experience

Mechanical Engineer – Technical Office | Attieh Medico Ltd., Jeddah | Feb 2024 – Present

Key Responsibilities:

- HVAC system design and cooling load calculations using HAP
- Fresh air and ventilation system sizing
- Plumbing and drainage system design coordination
- Firefighting system layout preparation
- Preparation of mechanical shop drawings using AutoCAD
- Quantity take-off (BOQ) for mechanical systems
- Cost estimation and pricing
- Preparing material requests and technical submittals
- Coordination with suppliers for material selection
- Technical coordination with project disciplines
- Reviewing project specifications and requirements
- Supporting site team during execution phase
- Supervision of installation works
- Ensuring compliance with approved drawings and specifications
- Supporting testing and commissioning activities
- Assisting project handover to consultant
- Supporting maintenance activities when required

Healthcare Projects

- General Laboratory – King Abdullah Medical City (KAMC), Makkah (In progress – Freelance project with NMG (Jeel Al Edarah Al Haditha))
- Chemotherapy Department – Jazan Specialist Hospital
- Operation Rooms – Jazan Specialist Hospital
- IVF Laboratory – Qassim University Hospital

- CSSD – International Medical Center (IMC), Makkah
- CSSD – Al Rass General Hospital, Qassim
- CSSD – Rijal Almaa General Hospital
- Operation Rooms – Rijal Almaa General Hospital
- NICU – Rijal Almaa General Hospital
- IV Room – King Salman Medical City, Madinah
- IVF Laboratory – King Fahad Hospital, Tabuk

Previous Experience

Mechanical Site Engineer | ORASCOM – Cairo Monorail Project | Dec 2022 – Feb 2024

Key Responsibilities:

- Supervision of HVAC system installation works
- Supervision of firefighting system installation works
- Supervision of water supply and drainage system installation
- Ensuring installation complies with approved drawings and specifications
- Coordination with contractors and site teams
- Monitoring work progress and installation quality
- Preparing documents for consultant inspection
- Following up consultant comments and ensuring implementation
- Supporting testing and commissioning activities
- Assisting final handover to consultant

Education

Bachelor of Mechanical Engineering – Misr University for Science and Technology – 2021
Graduation Project: HVAC Design for Hospital Building

Courses & Training

ENGO SOFT Diploma – Technical Office (2023–2024)

- HVAC Design
- Plumbing Systems Design
- Firefighting Systems Design
- Medical Gas Systems Design
- Mechanical Shop Drawings

Software Skills

- AutoCAD
- Revit MEP
- BIM
- HAP
- Duct Sizer

- SolidWorks
- Microsoft Excel

Technical Skills

- HVAC system design
- Cooling load calculations
- Ventilation system sizing
- Fresh air system calculations
- Plumbing system design
- Firefighting system layout
- Shop drawing preparation
- Quantity take-off (BOQ)
- Cost estimation
- Technical submittals
- Coordination between disciplines
- Basic air balancing knowledge

Personal Skills

- Problem solving
- Teamwork
- Communication skills
- Time management
- Adaptability
- Attention to detail

Languages

Arabic: Native

English: Upper Intermediate (B2)