

MAHMOUD HAGRAS

Mechanical Engineer



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Iqama: Valid & Transferable

Summary

Mechanical Engineer with solid experience in EPC infrastructure and MEP projects, including chilled water, firefighting, potable water, sewage, oil drainage, and compressed air systems. Experienced in site supervision, technical support, and coordination between contractors and consultants within multi-layer EPC environments, ensuring execution in compliance with project specifications and approved drawings.

Education

Bachelor of Mechanical Engineering

Helwan University, Matarya Branch — 2022

Professional Experience

Employer: DARKSTONE ARABIA LTD, Al Jubail

Mechanical Engineer (Technical Support & Site Supervision)

Oct 2025 – Present

- Executed infrastructure and MEP works under EPC project structure (RSNF–BYKAR – MAPA).
- Provided technical support to design department including review of IFC drawings and site clarifications.
- Supervised execution of infrastructure systems (sewage, potable water, oil drainage, irrigation).
- Supervised MEP systems including firefighting, chilled water, and compressed air.
- Prepared As-Built drawings and coordinated inspection activities with consultants.
- Followed up construction progress and supported project documentation.

Employer: Advanced Project Company (AFCO), Riyadh

Mechanical Engineer

Aug 2024 – Sep 2025

Project: Jax Infrastructure Development, Diriyah

- Supervised execution of MEP works in compliance with approved drawings and project specifications.
- Supervised installation and testing of firefighting, sewage, and stormwater systems.
- Coordinated installation of pumps and lift stations.
- Prepared shop drawings, inspection documents, and daily/weekly progress reports.
- Conducted site inspections, defect reporting, and supported the MEP Manager during execution stages.
- Managed manpower deployment and material allocation in line with project planning.
- Coordinated material submittals and approvals with consultant.
- Followed up material receiving and storage at designated areas.
- Supervised installation of drip irrigation systems for landscaping and agricultural works.

Employer: Ain Shams Univ. Engineering Consulting Office

Mechanical Site Consultant |

May 2024 – Aug 2024

- Oversaw all mechanical works as per approved drawings and safety rules.
 - Planned and coordinated execution methods for MEP works.
 - Interpreted design documents and resolved on-site technical issues.
 - Attended progress meetings and ensured quality compliance.
 - Collaborated with cost control for daily progress tracking.
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Employer: Egyptian Niderland Company

Technical Office Engineer/Site Engineer |

Nov 2022 – May 2024

- Participated in design review and supervision of infrastructure works for village development projects.
 - Supervised execution of sanitary drainage networks, potable water networks, and firefighting systems in accordance with approved drawings and technical specifications.
 - Executed potable water networks using HDPE pipelines across multiple project zones.
 - Supervised installation of PPR single-rise water systems serving more than 1,500 residential buildings.
 - Coordinated surveying activities and managed site teams during execution stages.
 - Reviewed technical drawings and resolved site-related technical issues in coordination with project engineers.
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Technical Skills

- MEP & Infrastructure Systems (HVAC, Firefighting, Plumbing, Utilities).
 - Site Supervision & Construction Execution.
 - Technical Support & Design Coordination.
 - Shop Drawings & As-Built Documentation.
 - Inspection, Quality Control & WIR Procedures.
 - Project Coordination & Progress Reporting.
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Software & Tools

- AutoCAD.
 - Microsoft Office (Excel, Word, PowerPoint).
 - Basic knowledge of Revit (for drawings review).
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Certifications

- Infrastructure Engineering Fundamentals.
 - MEP Systems Overview.
 - ICDL.
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Languages

- Arabic: Native.
- English: Good working proficiency.