

Mohamed Gafar

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Summary

Motivated Mechanical Site Engineer with a solid academic foundation and hands-on experience in HVAC systems, plumbing, firefighting, and mechanical installations. Skilled in mechanical design, robotics, and manufacturing processes. Proficient in engineering software and standards used across infrastructure and industrial projects. Actively seeking a full-time opportunity to apply and grow within a leading engineering or construction firm in Saudi Arabia.

Key Skills

AutoCAD, SolidWorks, Microsoft Office Suite (Word, Excel, Access, PowerPoint), Internet & Networking Skills, Data Entry, Strong communication skills, Quick learner, Team-oriented

Professional Experience

Sinonia CDI , Egypt - Mechanical Site Engineer

Oct 2023-Dec 2024

- Supervised execution of HVAC, infrastructure, plumbing, and firefighting mechanical systems in compliance with engineering drawings and standards
- Monitored subcontractor performance and ensured adherence to mechanical specifications and safety codes
- Reviewed technical drawings and coordinated with consultants and engineers to resolve site-level mechanical issues
- Prepared daily progress reports and participated in inspection processes

Delta Sugar Company, Egypt - Mechanical Site Engineer (Trainee)

Feb 2022-Dec 2022

- Assisted in mechanical maintenance and inspection of factory equipment
- Observed production lines and utility systems
- Participated in technical workshops related to pumps, piping systems, and process flow

Graduation Project

Designed and constructed a 6-DOF robotic arm for hazardous environment operations. Features included:

- Aluminum alloy structure with stepper motor joints
- 3-meter working radius
- 200 Nm torque capacity with a safety factor of 2.5
- Suitable for milling, painting, and welding applications

Professional Certificates

- **ICDL** (International Computer Driving License)
- **Classic Control** – HA Consulting Group (*Grade: Excellent*)
- **PLC Basics** – HA Consulting Group (*Grade: Excellent*)
- **Sheet Metal Design** (*Practical Training*) **Robotic Arm Development** (*Project-based Learning*)

Education

Bachelor's Degree in Mechanical Engineering, Kafr El-Sheikh University,

2018–2023

Relevant Coursework: Machine Design, Production Engineering, Fluid Mechanics, Heat & Mass Transfer, Thermodynamics, Hydraulic Power Systems, Tool Design & Application, Automatic Control, Quality Control, Project Management & Marketing