

# Mohamed Gafar

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## Summary

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Motivated Production Engineer with a strong academic foundation and practical experience in mechanical design, robotics, and manufacturing processes. Skilled in mechanical CAD design, process optimization, and quality assurance. Experienced in robotic automation projects and familiar with modern production systems and maintenance workflows. Seeking a full-time opportunity to contribute to and grow within a forward-thinking manufacturing or industrial company in Saudi Arabia.

## Key Skills

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SolidWorks (3D design for mechanical components), AutoCAD (2D drawings for part layouts), Sheet Metal Design, Production process planning, CNC & Numerical Control Machines, Tool Design & Application, Quality Control inspection, PLC Basics (from training), Classic Control Systems, Materials Engineering & Testing, Microsoft Office Suite (Excel for reports and tracking), Technical Report Writing, Problem-solving mindset, Team collaboration, Communication skills, Quick learner, Works well under pressure

## Professional Experience

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### Sinonia CDI , Egypt - Mechanical Production Engineer

Oct 2023-Dec

2024

- Oversaw mechanical installation of HVAC, piping, and utility systems relevant to industrial operations
- Collaborated with teams to troubleshoot technical issues impacting system performance
- Ensured compliance with mechanical design specifications and site execution standards
- Reviewed and interpreted technical drawings and schedules during mechanical works

### Delta Sugar Company, Egypt - Mechanical Production Engineer (Trainee)

Feb 2022-

Dec 2022

- Observed sugar production and refining processes and associated mechanical systems
- Assisted in maintenance planning and process flow tracking for key mechanical operations
- Participated in workshops focused on material handling, conveyor systems, and maintenance

## Graduation Project

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Designed and developed a 6-DOF robotic arm for industrial use in hazardous environments. Integrated aluminum structure with stepper motor control, achieving a 3-meter working radius and 200 Nm torque capacity (with 2.5 safety factor). Suitable for milling, painting, and welding—highlighting automation applications in production settings.

## Professional Certificates

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- **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

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

2018–2023

**Relevant Coursework:** Production Engineering, Machine Design, CNC Machines, Quality Control, Heat & Mass Transfer, Thermodynamics, Tool Design & Application, Automatic Control, Materials Testing, Project Management & Marketing