MUHAMMED OSAMA MUHAMMED

Cairo, Egypt | +20 127 073 6625 | muhammedoelderwy@gmail.com | LinkedIn

Professional Summary

Second-year Mechanical Engineering student at Sinai University with growing expertise in CAD design, automation systems, and energy technologies. Completed 30+ hours of SolidWorks training and preparing for CSWA certification. Gained hands-on experience through a construction internship focused on site operations. Executed personal and academic engineering projects and authored technical documentation. Proficient in HTML/CSS/JavaScript through IBM course. Eager to apply engineering fundamentals to real-world challenges in product development and sustainable systems.

Education

Bachelor of Mechanical Engineering

Sinai University – North Sinai, Egypt

Expected Graduation: 2028

Key Skills

- SolidWorks (Certified, 30+ hours training)
- Basic MATLAB (self-study)
- HTML, CSS & JavaScript (Certified, 13+ hours training)
- Microsoft Office Suite (Excellent)
- Technical Problem Solving
- Electrical & Mechanical Fundamentals
- Strong Communication & Teamwork
- Technical Writing (Reports, etc.)

Projects

Electromagnetic Induction Generator (Team Project)

- Designed a rotor with copper coils and neodymium magnets to validate Faraday's Law
- Achieved proportional EMF via manual rotation

Bench Clamp Design (Academic Project)

- Modeled and assembled a mechanical bench clamp in SolidWorks

Water Pump Workshop Feasibility Study (Academic Project)

- Conducted full market and financial analysis for pump production in North Sinai

Pressure Measurement Devices Report (Academic Project)

- Authored a report comparing manometers, Bourdon gauges, and electrical pressure sensors
- Evaluated working principles, calibration methods, and industrial applications

Work Experience

Engineering Assistant Intern

Construction Site – Administrative Capital, Egypt

Summer 2024 (1 Month)

- Assisted in mechanical/electrical site operations, including wiring and component fitting
- supported material inspections

Certifications & Training

SolidWorks Certification (30 Hours) – Egyptian Engineers Syndicate

Introduction to HTML, CSS & JavaScript – IBM via Coursera

Languages

- Arabic – Native
- English – Fluent