

Ahmed El-Sonbaty

Cairo, Egypt • LinkedIn • ahmadsonbaty@gmail.com • +201060089940

Education

Higher Technological Institute

Bachelor's Degree, Mechatronics Engineer. GPA 3.6

Egypt

January 2026

Experiences

GAEB

Egypt

Mechatronics Engineer Intern

Sep 2025 – January 2026

- Completed an intensive multi-disciplinary technical training covering mechanical machining, vehicle systems, HVAC, and solar energy, gaining direct experience with industry-standard tools and machinery.
- Developed practical skills in precision measurement, vehicle diagnostics, refrigeration cycles, and photovoltaic system installation, aligning technical knowledge with sustainable energy applications.

NREA

Egypt

Renewable Energy Engineer Intern

June 2025 – August 2025

- Conducted site visits to the Zafarana Wind Farm, analyzing SCADA data to support the monitoring of 650+ MW of installed wind capacity and its integration into the national grid.
- Acquired practical and theoretical knowledge of renewable energy technologies, SCADA systems, and energy efficiency testing and measurements.

GUPCO

Egypt

Petroleum Engineer Intern

Sep 2024 – October 2024

- Conducted on-site inspections across multiple production facilities, reviewing pump and turbine-driven systems during routine operations during daily 12-hour production shifts
- Contributed to evaluating mechanical equipment performance, supporting a 15% reduction in potential operational downtime risks across monitored systems.

Ridgewood for water desalination

Egypt

Product Engineer Intern

August 2024 – Sep 2024

- Monitored desalination system performance across RO units, pumps, and filtration stages
- Tracked mechanical system efficiency across continuous desalination operations, maintaining >95% uptime for RO units and pumps serving industrial-scale water production.

South Dabaa

Egypt

Petroleum Engineer Intern

August 2023 – Sep 2023

- Applied oilfield safety standards across daily reservoir and production operations supporting 24/7 field activities across 3+ operational units
- Assisted in collecting and reviewing production data from 3+ operational units, contributing to daily reports that supported output monitoring and helped maintain consistent field production levels.

PETROBEL

Egypt

Petroleum Engineer Intern

June 2023 – August 2023

- Aided drilling and upstream field operations across multiple active sites; reviewed daily operational and safety reports
- Coordinated with cross-functional teams to maintain 100% compliance with site safety and operational procedures

Leadership & Activities

APEX Racing Team

Egypt

Driveline Member

January 2025 – Feb 2026

- Created and analyzed a Formula Student driveline system, including final drive ratio selection using hand calculations and OptimumG/OptimumLap simulations.
- Developed, reverse-engineered, and optimized a differential mounting, casing, and chain-drive system, including FEA, chain tension calculations, and component selection.

Skills & Interests

Technical: SolidWorks, OptimumG / OptimumLap, MATLAB, Microsoft Office, SCADA Systems, FEA

Laboratory & Engineering Tools: Solar radiation measurement instruments, Wind energy monitoring equipment, Mechanical measurement tools, Data collection and performance analysis of energy systems

Languages: Arabic, English

Interests: Renewable energy and sustainability, Automotive and motorsports engineering, Wind and solar power, technologies, Electric and hybrid powertrains