



AHMED HANY MAHROUS

M E C H A N I C A L E N G I N E E R

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EDUCATION

BACHELOR OF ENGINEERING

Cairo University

SKILLS

- **Engineering Design:** Proficient in SolidWorks for solar system design and Finite Element Analysis (FEA).
- **Manufacturing & Machining:** Skilled in CNC machining and related manufacturing processes.
- **Problem-Solving:** Strong critical thinking and analytical skills to tackle complex technical challenges.
- **Leadership & Teamwork:** Experienced in team leadership, collaboration, and achieving shared goals.
- **Communication:** Effective verbal and written communication for technical and cross-functional discussions.

Courses

- Finite element analysis
- Lean Six Sigma Green belt
- Machine Design
- Manufacturing Processes
- CNC Machining
- Marketing
- Control Systems
- Automotive Control

PROFILE

As a driven and accomplished Mechanical Engineering student at Cairo University, I've developed an exceptional skillset that makes me primed for success. My technical proficiency spans cutting-edge CAD programs, Finite Element Analysis, CNC machining, and more. But I've also honed invaluable leadership, communication, and project management abilities through 3 years of active involvement in campus organizations.

EXPERIENCE

Honda Egypt NTE (Nile Trading Engineering)

- Gained hands-on experience in automotive systems, including engine operation, air intake, turbocharging, fuel injection, EGR systems, and drivetrain types (4WD, RWD, FWD).
- Studied suspension, steering, cooling, lubrication, and transmission systems (automatic, manual, CVT).
- Learned about braking systems, clutch mechanics, and troubleshooting air conditioning systems.
- Familiarized with ECU-controlled systems such as ABS and EPS.
- Trained in service reception, developing skills in customer interaction and service transactions.

SOLID WORKS PROJECTS

Car Wiper
Caster wheel
Hoist mechanism
Sugar cane machine
Trommel Machine
Screw Jack

Solar Panels Enginner at Eco egypt

Making engineering drawings for projects(design,shop drawing,as built)
Reading and analyzing electrical catalogs and solar energy components.
Project design(on.off.pump)
Complete project design with accurate calculations, chassis, cables, infrats, power panels, protections.
Connecting and programming amphutters of all kinds(on grid ,off grid,Agricultural irrigation pumps).
Dealing with different work codes.
Procedures and files required to manage the project of implementing a network station site.

NUMIRICAL ANALYSIS PROJECT

CFD-Enhanced Mini Airplane For Aerial Seeding : CFD-enhanced mini airplanes utilize computational fluid dynamics simulations to optimize aerodynamic design, improving efficiency and precision for aerial seeding tasks in agriculture or forestry.
(https://drive.google.com/drive/folders/16frL1CEhKrbuYfWF6aikTDM0n6V4lcp5?usp=drive_link)