

Momen Abd-Alraheem Sayed-Ahmed

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Education

B.Sc. in Mechanical Power Engineering, Menoufia University, Egypt. (Sept 2019: July 2025)

Student Activities

- **Head, IC Engine**, MRT, Menoufia University. (Feb.2025 – Aug.2025)
 - led a newly established team to design the intake, exhaust, fuel, and cooling systems for an internal combustion engine in the Formula Student Concept Class.
- **Head, Steering System**, MRT, Menoufia University. (Sep.2024 – Feb.2025)
 - Designed a lightweight, accurate, and fast-response steering system for Shell Eco-Marathon.
- **Supply Chain Manager**, MRT, Menoufia University. (Sep.2024 – Feb.2025)
 - Manufacturing Process planning and inventory management for a prototype car, constructed simple and practical Excel sheets to manage process and inventory as well as Implementing the 5 S system
- **Vice Head, Steering System**, MRT, Menoufia University. (Sep.2023 – Sep.2024)
 - Designed and fabricated steering system of EVER V.
- **Member, Suspension & Steering System**, MRT, Menoufia University. (Jul.2022 – Aug.2023)
 - Contributed to the design and CAD assembly of the FSUK 2023 car.

Internships & Courses

- **Diesel Engine Maintenance**, Oring Training. (in progress)
- **Heavy equipment hydraulics Maintenance Diploma**, Oring Training. (June.2024 -Aug.2024)
- **Mechanical Engineering Intern**, Banha Electronics, Banha, Al-Qalyubia. (Aug.2023)
- **Mechanical Engineering Intern**, Gemma Ceramic, Al-Sadat city, Menoufia. (Aug.2022)

Computer Skills

- **CAD & Simulation:** SOLIDWORKS, AutoCAD, ANSYS
- Microsoft Office
- **Fluid Systems:** Automation Studio, Festo Fluid sim.
- **Automotive:** Lotus Shark (car suspension analyzer), Ricardo Wave (1-D engine simulation model)

Projects & Competitions

- **Graduation Project**, Grade: **A+**
Design, Fabrication and Testing of Hybrid Darrieus -Savonius Wind Turbines.
- **FSUK concept class 2025**, ranked 6th design overall design category & 10th overall concept.
- **Shell Eco-Marathon 2025**, prototype class, ranked 11th.
- **EVER V 2024**, Ranked 4th place in Electric Vehicle Rally (EVER-Egypt).
- **FSUK concept class 2023**, Ranked 18th overall.
- **Arduino**, parking lot management system, academic project.

Languages

- Arabic.
- English.