MAHMOUD BIN HATEM MASRI

Manama, Bahrain | +973 3514 6320 | mahmoud.hatem.masri@gmail.com | linkedin.com/in/mahmoud-hatem-masri

PROFILE

Fourth-year BEng Mechanical Engineering student (dual degree, Applied Science University and London South Bank University) with a 72.39% current average, applying for an MSc in Robotics and Automation. Hands-on industrial experience in machinery diagnostics, ship repair and quality control at Denso, ASRY and Nass Marine. Designed and calculated a solar vehicle chassis and a scissor car jack. Founding President of the ASHRAE Student Branch at ASU.

EDUCATION

BEng Mechanical Engineering (LSBU Dual Degree), Applied Science University (ASU) *2023 – Expected 2027*

- Current average: 72.39% (British system)
- Relevant modules: Robotics Foundations, Mechanical Design, Engineering Mechanics, Failure Theories, Stress and Strain Analysis, Fluid Mechanics, Thermodynamics

Advanced Engineering Mechanics Suite, Georgia Institute of Technology (Coursera, verified) *2024*

IGCSE Diploma, Alrawabi Private School *2016 – 2023*

TECHNICAL SKILLS

- **Design and analysis:** AutoCAD, MATLAB
- **Diagnostics:** OBD-II scanners
- **Engineering practice:** machinery overhaul, alignment troubleshooting, QA/QC, maritime and industrial safety procedures

TECHNICAL PROJECTS

Solar-Powered Vehicle Prototype Chassis Design (Academic Project) *January 2026*

- Designed a unitized chassis from Series 4080 aluminium T-slot extrusions and verified tolerances for an integrated rear axle kit, to an 80 kg driver design limit.

Mechanical Scissor Car Jack Structural Design (Academic Project) *February 2026*

- Designed a high-capacity alloy steel jack, with calculations for load deflection, torque requirements and safety margins.

EXPERIENCE

Automotive Engineering Intern, Denso (Arad, Bahrain) *June 2026 – August 2026*

- Diagnosed electrical faults and cylinder misfires on multiple vehicle platforms using OBD-II scanners.
- Performed scheduled inspections and servicing across vehicle platforms.

Mechanical Engineering Intern, Arab Shipbuilding and Repair Yard (ASRY) *February 2025; May 2025*

- Worked on commercial dry-dock ship repair, including heavy machinery overhaul and auxiliary plant diagnostics.
- Took part in marine alignment troubleshooting with engineering crews under high-risk maritime safety guidelines.

Engineering Intern, Nass Marine *December 2024 – January 2025*

- Supported industrial inspections, structural adjustments and machinery repairs on maritime vessels, with hands-on equipment handling and quality control.

Industrial Process Trainee, NAS Industrial Training *January 2024 – February 2024*

- Practised precision drilling and casting in heavy industrial manufacturing under strict safety tolerances.

LEADERSHIP

Founding President, ASHRAE Student Branch, Applied Science University *October 2026 – Present*

Treasurer, Engineering Club, Applied Science University

CLIMATE POLICY AND RESEARCH

- **COP31 Simulation (British University in Egypt with UNDP Egypt), 2026:** represented Tunisia in the African Group of Negotiators; nominated by the organizers to attend the real COP31 in Antalya. Author, "Off-Grid Solar-BESS Retrofits for Water Pumping Stations: A Resilience Framework for North Africa".

- **COP30 Simulation (British University in Egypt), 2025:** represented Nigeria. Author, "Addressing Loss and Damage at COP30: From Promise to Action", published on BUE Scholar (buescholar.bue.edu.eg/cop30/57).

INDUSTRIAL VISITS

- GARMCO (Nov 2024): reviewed metal processing lines and QA/QC frameworks.
- Hilton Facilities (Oct 2024): evaluated large-scale HVAC systems, back-up machinery and facility energy efficiency.

LANGUAGES

English (fluent), Arabic (fluent), French (basic)