

## BAHAA NASR

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### PROFESSIONAL SUMMARY

Mechanical Engineering student at LAU, Honors Program member, and USAID HES scholar. Ranked top 20 in the Lebanese Official Baccalaureate (GS). ASME and Robotics Club member.

### PROFESSIONAL EXPERIENCE

#### MECHANICAL ENGINEERING INTERNSHIP | MIDDLE EAST AIRLINES MEA - MEAG GSEM DEPARTMENT BEIRUT, LEBANON

- Assist Assisted in preventive and corrective maintenance of airport ground support equipment, including inspections, troubleshooting, and repair documentation of mechanical systems. July – Aug. 2025
- Gained hands-on experience with various automotive subsystems, including hydraulic, braking, lubrication, pumping, and turbocharging systems, as well as engine disassembly and reassembly (diesel and gasoline).
- Developed practical skills in automotive diagnostics, component servicing, and adherence to safety and operational standards in an aviation maintenance environment.

#### MECHANICAL ENGINEERING INTERNSHIP HVAC & PIPING DESIGN | KHATIB & ALAMI JNAH, BEIRUT, LEBANON

- Completed a 2-month internship focused on HVAC and piping design for large-scale projects. May – July 2025
- Gained hands-on experience with cooling and heating load calculations.
- Performed ventilation sizing and water/drainage pipe sizing.
- Utilized industry-standard tools including HAP, Elite, Revit, AutoCAD, and Excel.
- Contributed to major projects such as the IMC Medical School in Jeddah and MEA facilities.

#### LEBANESE AMERICAN UNIVERSITY BYBLOS, LEBANON

- Engineering Summer Camp: Leading high school students in their activities at LAU June-JULY 2024
- Tutor- Career Services Office: Tutoring Strength of Materials: MEE major course for 2<sup>nd</sup> year students 2024 – 2025
- Undergraduate Research: Designing 3D-printable wearable device for physical rehabilitation, using soft pneumatic sensing technologies. 2024 – present

### EDUCATION

#### LEBANESE AMERICAN UNIVERSITY BYBLOS, LEBANON

Senior Mechanical Engineering student Sept. 2022 – JUNE 2026

- CGPA: above 3.7: Named on the Dean's distinguished list.
- Awarded USAID HES scholarship and attending more than 5 workshops per semester

#### COLLEGE LE-LYCÉE NATIONAL CHOUAIFET, LEBANON

General Science JUNE 2022

- Grade: 18.167/20: Ranked among the top 20 students in Lebanon

### TECHNICAL SKILLS

- SolidWorks – Autodesk: AutoCAD – EES – SIMULINK – Microsoft office – MATLAB – LabVIEW – Unity (VR/ AR development – Meta Quest) – Java – G-code – Project Management: Certified courses at LAU
- Autodesk: Revit – Carrier's HAP – Elite: Acquired through internships and self-learning

### PROJECTS & CERTIFICATIONS

#### SOLIDWORKS SEPT.2023 – DEC. 2023

- Certified SolidWorks Associate (CSWA) – Mechanical Design
- Modeled a certified full V12 engine at LAU

#### LEBANESE AMERICAN UNIVERSITY BYBLOS, LEBANON

- Blinker Robot for visually impaired April 2024  
Designed and built a navigation aid for visually impaired, including mechanical parts, linkages, sensors, and electronics.
- Water level control system: Dec. 2024  
Developed a dam control prototype with a PID-controlled closed-loop system using the required electronic components.

#### MILLENNIUM FELLOWSHIP BYBLOS, LEBANON

Certified Project: Mentoring the Future, focused on youth development and education 2023-2024

### VOLUNTEERING AND COMMUNITY INVOLVEMENT

LEBANESE RED-CROSS - CHOUAIFET SECTOR | VOLUNTEERING HOURS COMPLETED 2022–2024

AL BENNAY CHARITABLE CLINIC | MEDICAL VOLUNTEER 2022–2025

USAID HES COMMITTEE | PEER TUTORING & ACADEMIC SUPPORT 2023-2025

HES FUNDED COMMUNITY SERVICE PROJECT | AFFORESTATION AWARENESS & TOOL DISTRIBUTION FOR LOCAL FARMERS 2023-2024

### LANGUAGES

- Arabic C2 • English C2 • French A1

### EXTRACURRICULAR ACTIVITIES

Football (earned a medal) – Gym – Kickboxing (earned a medal) – Basketball (earned a medal)