

Ahmad Mhanna

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EDUCATION

American University of Beirut (AUB), Mechanical Engineering

Sep 2023 – Jun 2027

- **GPA: 3.51/4.0**
- Activities and societies: Lebanese Aerospace and Automotive Society (LAAS), American Society of Mechanical Engineers (ASME), AUB Robotics Club

Lycée Franco-Libanais Verdun, French Baccalaureate

Sep 2008 – Jun 2023

- 17.45/20 Graduated with High Distinction
- Volunteered with school's student committee, Took part in the school varsity football team

PROFESSIONAL EXPERIENCE

Atalian Switch Group, Intern

Aug 2022 – Sep 2022

- Gained hands-on experience with commercial HVAC systems, with a focus on chiller operation, maintenance, and troubleshooting in a large retail facility.
- Shadowed technicians during site inspections, learning how to assess system performance and identify operational inefficiencies.

Car Mechanic, Intern

May 2024 – Jun 2024

- Supported engine and transmission swaps on a variety of vehicles, learning proper alignment, mounting, and connection of critical drivetrain components.
- Gained practical experience in routine services including oil/lube changes and wheel replacements, ensuring safe and reliable vehicle operation.

Freelance 3D Printing Service, Work

March 2025– Present

- Provided 3D printing and CAD modeling support for university projects, delivering customized prints to meet client specifications and deadlines.
- Managed project requests, print troubleshooting, and material optimization, building strong peer relationships and time management skills.

Camp Counselor at Dent De Lait, Work

July 2023 – Aug 2023

- Supervised and engaged children in daily activities, fostering personal growth, teamwork, and a positive, inclusive environment.
- Helped organize games and educational activities, promoting creativity, cooperation, and safe participation.

EXTRACURRICULAR EXPERIENCE

AUB Supermileage Car, Team Member

Feb 2025 – May 2025

- Contributed to diagnosing and restoring a Briggs & Stratton engine, troubleshooting ignition and mechanical failures to help bring the vehicle back to working condition for competition.
- Collaborated with a multidisciplinary team under tight deadlines, enhancing skills in hands-on engine work, problem-solving, and mechanical systems.

First Place Winner, Aircraft Competition

April 2025 – April 2025

- Collaborated with a multidisciplinary team to design and build a high-performance aircraft model, leading to first place recognition for innovation and technical excellence.
- Led creative problem-solving and resourceful construction under tight time and material constraints, contributing to the team's first-place victory.

AUB Engineering Projects, Team Member

March 2025 – April 2025

- Designed and prototyped a stair-climbing robot with innovative wheel mechanisms for disaster rescue applications.
- Developed a smart irrigation system integrating sensors and LabVIEW for automated plant care.
- Engineered a foldable seat for walkers using a slider-crank mechanism to improve accessibility for disabled users.

VOLUNTEERING

Lycée Franco-Libanais Verdun, Volunteer

Oct 2022 – May 2023

- Supported planning and coordination of student events, ensuring smooth execution and positive participant experiences.

SKILLS & PERSONAL

Languages: Arabic (native), English (fluent), French (fluent), German (intermediate)

IT: Office Package (Word, Excel, PowerPoint), CAD (SolidWorks), CFD (Ansys), Labview, Arduino, 3D Printing, Matlab, Python

Interests: Sports (football, bodybuilding, tennis), Outdoor enthusiast (hiking), Gaming