

LAYAL EL FADL

MECHANICAL ENGINEER

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UAE Resident | [LinkedIn](#)

EDUCATION

Aug. 2020 – Jun. 2025 Bachelor of Engineering in Mechanical Engineering,
American University of Beirut (AUB), Lebanon



EXPERIENCE

Jun. - Aug. 2024 Mechanical Engineering Intern, Ecotherm,
Abu Dhabi, UAE

- Collaborated with senior engineers on project planning and resource allocation for MEP systems, aligning technical solutions with client requirements
- Conducted cost and performance analysis of equipment, preparing structured reports to support management decision-making
- Coordinated with cross-functional teams to address project risk and manage efficiency

VOLUNTEER

Apr. - May 2025 Volunteer, Construction Team, AUB Outdoors, Beirut, Lebanon

- Supported on-site construction setup and logistics for AUB's largest student-led event

Oct. 2024 Volunteer, UAE Stands with Lebanon

- Assisted in logistical coordination and relief efforts

April 2023 & April 2024 Event Organizer - IDEAS Fair & Glider Competition, AUB

- Collaborated with faculty to organize outreach fairs and student competitions

Sep. 2023 Volunteer, Accessibility Support, ABLE Summit, AUB

- Aided in seating and coordination for individuals with disabilities

Sep. 2017 - May 2020 Teaching Assistant (Freelance), Abu Dhabi, U.A.E.

- Provided academic support in Math, Physics, and Statistics for middle and high school students

PROJECTS

Jan. - Apr. 2025 Final Year Project: Biomimicry of Honeycomb Structures, AUB

- Directed a 4-member team researching bio-inspired designs, applying mechanical testing and data analysis to optimize strength and material efficiency

Sep. 2024-May 2025 Go-Kart Design & Manufacturing, AUB

- Coordinated design and fabrication of a custom go-kart; resolved technical challenges under tight deadlines and presented results at an end-of-semester competition

Mar. 2024 - Apr. 2024 Speedboat Design & Manufacturing, AUB

- Contributed to model development and testing, focusing on iterative improvements and resource management to meet performance targets

Mar. 2024 - Apr. 2024 Ball and Beam Control System, AUB

- Partnered with 3 peers to design and program a stabilization system, integrating sensors and microcontrollers, achieving precise one-degree-of-freedom control

Jan. 2024 - Apr. 2024 Sustainable Portable Bidet, AUB

- Led the creation of an eco-friendly personal hygiene device, emphasizing water efficiency and user-centered innovation

Jan. 2022 - May 2022 Sustainable Gum Disposal Method, AUB

- Researched and prototyped a 3D-printed disposal solution, addressing environmental impact through creative problem solving

LEADERSHIP & INVOLVEMENT

Sep. 2023 - May 2025 American Society of Mechanical Engineers (ASME), AUB Chapter

- Sub-cabinet member - Events team

Lebanese Aerospace and Automotive Society (LAAS), AUB Chapter

- Sub-cabinet member - Social Media Team

SKILLS

Software & Tools Office 365, SolidWorks, AutoCAD, Primavera P6 (certified)

Languages Proficient in English, Fluent in Arabic