

# 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