

# Ali Chehade

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## Education

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### American University of Beirut (AUB)

Bachelors of Engineering (B.E) in Mechanical Engineering

Expected in Dec, 2023

## Experience

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### Nesma & Partners Co. Ltd.

Jun, 2023 – July 2023

Mechanical Engineer-in-Training

- Underwent the entire estimation process of a construction project which included reading the contract, forming work packages, analyzing the BOQ, performing the material takeoff, and the costing of materials.
- Prepared various design calculations related to water supply, drainage and HVAC systems for the Avenue Riyadh Mall, in line with LEED guidelines and international codes such as the IPC, ASHRAE, NFPA, etc.

### Passive Trash Collection (4.0/4.0)

Sept, 2022 – May, 2023

Final Year Project Team Leader

- Weekly coordination with 2 professors to a team of 5 to engineer a sea-bin that operates on a 0.5kW underwater pump, powered by solar energy, capable of removing upwards of 18.2kgs of trash per day
- Analyzed seawater current behaviors to optimize the entrance of trash into the Sea-bin through the use of guiding wings.
- Studied allowable pipe stresses to ensure structural integrity and to maintain system operability

## Extracurriculars

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### American Society of Mechanical Engineers (ASME) – Associate

Oct, 2022 – Present

- Helped in the setup of various events including ASME rally paper and cancer awareness stands.

### Football Men's ASME Team – Captain

December, 2022 – Present

- Team captain participating in the all-inclusive league occurring between the different majors at **AUB**

### AUB Outdoors Sponsorship Team – Member

Oct, 2022 – Present

- Involved in securing several sponsorships for the biggest student-led event in the middle east

## Skills

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- **Languages:** Fluent in English and Arabic
- **Software:** AutoCAD, Revit, CREO Parametric, Inventor, Python, MATLAB & Simulink, NI LabVIEW, Arduino, MyDAQ, PVsyst