Hasun Darwiche

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Education

American University of Beirut (AUB)
Bachelors in mechanical engineering, GPA: 3.31/4.0   Expected in Aug 2023

Work Experience

Nesma & Partners Co. Ltd.   Jun 2023 – Present
Mechanical Engineer-in-Training

- Developed HVAC, Fire Fighting & Plumbing shop drawings for major commercial projects located in Saudi Arabia using Revit and AutoCAD. (Avenue Riyadh Mall, MASAR Car Parks, Red Sea Airport, NEOM Mega-projects: Sindalah Island Hotel, Trojena)
- Prepared various design calculations of 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.

MEA – MASCO   Dec 2022 – Jan 2023
Engineering Intern

- Completed 75 hours of theoretical lectures on Airbus A321 NEO avionics, airframes, and MASCO departments
- Practiced Non-Destructive Tests (Eddy-current/ Magnetic particle/ Penetrant/ Infrared thermography) under a certified engineer's supervision, to ensure airplane components are within CMM standards
- Drafted SIL (Service Information Letter) reports to professionally document service statuses and component conditions in the Avionics department of MASCO's airplane maintenance workshops

Leadership Experience

Passive Trash Collection (4.0/4.0)   Sept 2022 – May 2023
Final Year Project Team Leader

- Coordinated weekly with 2 professors and delineated tasks to a team of 5 to engineer a sea-bin that operates on a 500W pump, is powered by solar energy, and can remove nearly 40lb of floating trash/day
- Analyzed seawater current patterns to optimize the orientation of the trash guiding wings, affecting an increase of 207.6% in trash collection capacity, for the same pump rating and sustainable bin design

Skills

- **Languages**: Fluent in English, Intermediate in French, Beginner in German
- **Technologies**: AutoCAD, Revit, Ansys, CREO Parametric, Inventor, C++, Python, MATLAB & Simulink, NI LabVIEW, Arduino, MyDAQ, PVsyst