Chanel Tohme

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Education

Lebanese American University   Byblos, Lebanon
BE in Mechanical engineering. 3.98/4.0   2020-2024 (expected)
- Awards: Dean's distinguished list, Honor's scholarship
- Clubs: ASME(American society of mechanical engineers) and consulting
- Coursework: automotive dynamics, piping network, energy conversion, thermodynamics, sustainable engineering, heat transfer, thermal system design, HVAC, project management, engineering economy, control system, instrumentation, thermodynamics, fluid mechanics, manufacturing processes, science of materials

Collège des soeurs des saints coeurs   Batroun, Lebanon
Valedictorian. Lebanese baccalaureate in general sciences. 4.0/4.0   2020

Experience

AEE (association of energy engineers)   Beirut, Lebanon
Consultant in energy management and lighting efficiency   July 2022– August 2022
- Efficiently improved lighting in industrial spaces using DiaLux and LED fixtures
- Generated reports and BOM for clients using capital budgeting
- Contributed to the energy management of 4 residential buildings and a warehouse using sub-metering and Smappee products
- Participated in 10 master classes about sustainability and energy engineering

MMKN
NGO that provides academic support to more than 100 vulnerable public schools   Remote, Lebanon
Volunteer teacher   October 2022–Present
- Teach physics to 60 grade 9 students to prepare them for official exams

LebNet Cohort   Remote, USA
Fellowship for women in STEM   January 2023–Present
- Participate in immersive skill-development workshops, panels and discussion circles with 24 other female students in tech

Professional Projects

- Invented an interactive MATLAB code that designs a kinematic belt system according to standards and user input constraints
- Programmed a MATLAB code that calculates the nodal temperatures and heat transfer of a unique 2D unsteady object designed on SolidWorks in a team of four
- Built a coffee mixer with built-in recipes using LabView, MyRio, DC motor and sensors
- Modeled a double piping heat exchanger with EES in order to find the optimum design according to certain criteria and price
- Created a control system for a goalkeeper using accelerometer, encoder, motor, and LabView, while also simulating it on Simulink matlab
- Designed a robotic arm on SolidWorks and performed motion study and simulations
- Researched investment casting in a manufacturing course

Skills & Interests

Technical: Microsoft Office, excel, Javascript, LabView, Ansys, SolidWorks, AutoCad, MATLAB, MATLAB Simulink, DiaLux, Primavera
Soft skills: Professional communication, problem-solving, flexibility with change, creativity
Language: English (fluent), French(fluent), Arabic(native), Spanish(intermediate)
Interests: Traveling, poetry, teaching