

Nader BouHamdan

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OBJECTIVE

A Mechatronics Engineering student seeking new opportunities to develop on the technical and social levels

EDUCATION

Lebanese American University (LAU), Byblos, Lebanon

September 2020 - Present

Bachelor's degree in Mechatronics Engineering

Expected to graduate December 2024

Christian Teaching Institute, Sin El Fil, Lebanon

June 2020

Lebanese Baccalaureate – General Science

EXPERIENCE

Administration Officer, LAU Simulation Models

October 2021 – March 2023

- Participated in preparatory meetings and trainings.
- Worked on the logistics of the Conference.

SKILLS

Languages: English (Fluent), Arabic (Native), and French (Basic)

Computer skills: Microsoft Office, Solidworks, LabVIEW, Java, Python, SQL, HTML, AutoCAD, Pspice, Quartus

Personality: Communication skills, Leadership, Research and Development, Problem Solving and Logistics, Adaptability

PROJECTS

Smart Grid

April 2023

- Designed and implemented an electricity network that used logic units and electrical components to monitor and manage the transport of electricity from power sources to multiple grids.

Human Resources Management System

April 2023

- Programed a full stack developed application using Java for backend and frontend development and SQL for the database.

Robotic exoskeleton

March 2023

- Modified leg support using gears and aluminum sheets for the mechanism. Used LabVIEW to automate the design through Arduino.

Carpool Application

November 2022

- Created a Java executable file using Eclipse IDE for the backend development of the code and JavaFX for basic User Interface

Heating sensor and cooling system

May 2022

- Worked on the hardware of the design, created a model using Solidworks, and programmed using LabVIEW.

Industrial robotic arm

December 2021

- Designed the Project through Solidworks, simulated the Factor of Safety, and created a motion analysis for the mechanism of the device.

EXTRA-CURRICULAR ACTIVITIES

LiveLoveBeirut – Beirut, Lebanon

June 2021

Volunteer

- Garbage picking off the Lebanese coast lines.

DAFA - Beirut, Lebanon

August 2020

Volunteer

- Focused on the logistics and analytics of the donations in the warehouse after the Beirut Blast

WORKSHOPS AND CERTIFICATIONS

Participation, LAU Case Competition – Beirut, Lebanon

April 2022

CSWA, Solidworks

December 2021

Second Placement, Engineering Student Design Competition – Byblos, Lebanon

March 2023