

Simon Joseph

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Profile

Fourth year Mechatronics engineering student at the Lebanese American University. Interested in hardware; keen to learn more about them and to progress through the automation field. Passionate about dealing with data.

Education

Lebanese American University (L.A.U.) <i>Bachelor of Engineering, Mechatronics Engineering (CGPA: 3.42/4.0)</i>	Byblos, Lebanon <i>August 2019 – Present</i>
Antonine International School (A.I.S.) <i>High School and International Baccalaureate (I.B.) (37/42)</i>	Ajaltoun, Lebanon <i>September 2015 – June 2019</i>
British International School of Al-Khobar (B.I.S.A.K.) <i>Lower and Middle School</i>	Al-Khobar, Saudi Arabia <i>September 2004 – June 2015</i>

Projects

PHASER: Piano Hand Assistive System for Extended Reach is a robotic hand that will help to play the piano.
Robo-toys: Robot that follows the wall of a room, detects a toy, and places it in the correct bin.
DB Gym: Created a website for a gym to deal with memberships and reservations where I handled the database.
Automation System for Plants: Simulated an automation system that controls the light and temperature in a room, the water irrigation as well as keeping a dog out of the room. Also, designed an AC to DC converter. All designs were analogous given the constraints; microcontrollers, perforated logic gates and IC chips were not allowed.
Smart Pill Disposer: Designed a smart pill disposer which was programmed on LabView and implemented using the myRIO microcontroller.
Music Player on an MCU: Programmed a microcontroller to allow the user to pick a song, while also showing its lyrics as well as blinking the LEDs to the rhythm of the song.
Grand Piano Design: Modelled a grand piano on SolidWorks, as well as simulation and analysis on it.
Currency Converter: Simulated a currency converter from the United States Dollar to the Lebanese Pound on Quartus.

Skills

Software: AutoCAD, Quartus, PSpice, SolidWorks, LabView, MySQL Workbench
Programming Languages: Java, MySQL, Assembly
Languages: English (Fluent), Arabic (Intermediate)
Hardware: myRIO microcontroller, MC9S12DT256 microcontroller, sensors, actuators, electronics
Soft Skills: Hardworking, Determined, Confident Communicator

Volunteer Work

Logistics and Operation Coordinator for the L.A.U. Case Competition	2023
Outreach Coordinator for the L.A.U. Simulations Programs	2023
Beirut Marathon, running for Kun Hadi, a N.G.O. for youth awareness of road safety	2018
Planning, organizing, and setting up a fund-raising fair for a local church	2018
River and waterfall cleanup in Kfarhelda with Live Love Beirut	2017
Beirut Marathon representing CARITAS	2017

Certificates

Introduction to Machine Learning Bootcamp Beirut A.I., L.A.U.	2022
Certified SolidWorks Associate Dassault System	2021
Full Stack development Track Udacity	2021

Awards and Achievements

M.A.L. Diplomacy Award Winner

2017