

ALI AL HADI AMRO

Beirut, Lebanon | +961 76 357575 | alialhadiamro002@gmail.com

EDUCATION

B.E in Mechanical Engineering

Lebanese American University, Byblos

2020 - Present

Expected graduation date: 2024

EXPERIENCE:

Association of Energy Engineers Lebanon Training Partner

Energy Engineer Intern | 01 July, 2022 - 01 September, 2022

- Worked in a team on a hydro kinetic turbine project
- Measured the flow rate and flow speed of the Dammour river in the selected location
- Designed a water gate to modify the flow of the river
- Performed flow simulation on the turbine using Solidworks

Matrix Energy & Automation sarl

Industrial Automation engineering Intern | 01 June, 2022 - 4 August, 2022

- Fully assembled and wired a sorting machine including a conveyor belt, robotic arm controlled by an air compressor, three phase motor, and an inverter.
- Used logo Siemens plc with modbus as a controller.
- Programmed using LogoSoft.

Rayes & thewes elevator company

Technician trainee | Jun 2018 - Aug 2018

- Reading engineering drawings of the elevators.
- Worked with technicians to fully assemble and install elevators in several buildings
- Worked included assembling the cabin, installing the motor and driving machine, counterweight, travelling cables, landing doors, and other mechanical components

RELEVANT PROJECTS:

Sorting machine

- Worked in a team to build and wire a black and white sorting machine, using servo motors, infrared sensors and NI myRio.
- Created a LabVIEW code to run the machine and collect data about the sorted objects.

6 cylinder radial engine design

- Designed parts and assembled a model of a 6 cylinder radial engine using Solidworks.
- Performed motion analysis and stress analysis on cylinder head.

Wind shield wipers design and kinematic Analysis

- Designed a model of wind shield wipers using Solidworks.
- Performed a motion analysis study and calculated its mechanical advantage.

2D heat transfer model

- Designed a 2D shape of a sous vide heating machine using Solidworks.
- Performed thermal analysis on Solidworks and created a MATLAB code to simulate the heat transfer process at transient and steady state.

SKILLS

- CAD: **SolidWorks, Fusion360, and AutoCAD**
- Digital Circuits: **LabVIEW, TIAportal, LOGOsoft**
- Programing languages: **C++, and MATLAB.**
- Attentive to details, Fast and efficient learner, team player with leadership skills

References available upon request