MOHAMMAD BASHAROUSH

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EDUCATION:

B.E in Mechanical Engineering

2020 - Present

Lebanese American University, Byblos

Expected graduation date: 2024

CGPA = 3.85

Lebanese Baccalaureate in Life Sciences

2018-2020

National Evangelical School in Nabatieh

INTERNSHIP

Association of Energy Engineers - Intern in Energy Storage

July 2022 - August 2022

- Completed the necessary calculations and design to determine the required design of the Solar PV array and solar thermal plant needed for the drying of fruits.
- Designed a heat exchanger that would provide air at the appropriate temperature, and simulated the fluid flow and temperature distribution variation using Ansys.
- Attended Masterclasses on different topics related to sustainability and CFD

PROJECTS:

2D Heat Transfer Conduction Model

Created a MATLAB script that studies and calculates the flow of heat within a Sous Vide Machine.

2022

• Studied the transient and steady-state considerations of the model, and verified the results using SolidWorks Thermal Simulations

Kinematic Analysis of Automated and Manual Car Window Regulators

2022

- Designed models of different car window regulators based on various patents of automatic and manual designs using SolidWorks.
- Conducted a kinematic analysis of the movement of the linkages using the simulation tools within SolidWorks.
- Analyzed the movement of a four bar linkage using a MATLAB script.

6 Cylinder Radial Engine

2021

- Modeled a design of a 6 cylinder radial engine using engineering blueprints found online using SolidWorks
- Conducted a motion analysis on the engine to calculate the compression factor of the cylinders.
- Analyzed the structural integrity of the cylinder, based on the torque created by the crankshaft.

SKILLS:

- Skilled in various Programming & Scripting Languages: HTML, CSS, Python, and Kotlin.
- Experienced with various 3D and CAD Software as well as simulators, including:
 - CAD: SolidWorks, AutoCAD, Autodesk Fusion 360, and Siemens NX.
 - Simulation Software: **Ansys, SimScale, and SolidWorks Simulation.**
 - Electronic and Digital Circuits: Eagle Circuits, LabVIEW.
- Proficient in MATLAB
- Fast learner, problem solver, and detail oriented. In addition to being, a team worker with refined communication skills.

COURSES & CERTIFICATES:

•	Numerical Methods for Engineers	2022
	The Hong Kong University of Technology and Science	
•	Specialization in Python for Everybody	2022
	University of Michigan	
• ,	Aerial Robotics	2022
	University of Pennsylvania	
•	Supervised Machine Learning: Regression & Classification	2022
	Stanford Online & DeepLearning.ai	
•	CSWA in Mechanical Design	2021
	Dassault Systèmes	