Fadi Kaafarani

Email: fadi.kaafarani@lau.edu

Mobile: +961 70375617

Passionate Mechatronics Engineering undergraduate, looking forward to build knowledge and experience. Highly motivated and willing to get in the field of robotics and artificial intelligence.

Education:

Baccalaureate Degree at Amjad High School

2005-2019

General Sciences

• Bachelor of Engineering at Lebanese American University

Sept.2019 – Current

BE in Mechatronics Engineering

Experience:

Coding Tutor at Geek Express

March 2021 - Current

Working on enhancing software skills for younger generation (between 5 and 16 years old) by teaching them programming languages such as HTML, CSS, JavaScript and Python in the web development track, and other programming languages.

Undergraduate Research on Quadruped Robot

February 2022 – Current

Using Computer Vision and Machine Learning to recognize the material properties of the surroundings around a quadruped robot. This is used to link this information with the locomotion part of the Quadruped Robot. During the project, we built our own dataset, where we collected data for all the required materials, in addition to their friction coefficients. We also built our own model, to train and test.

Internship at Oculi

June - August 2022

Fulfilled my training as a software engineering intern and was exposed to various subjects in the Applications team:

- ➤ Computer Vision Scripts
- ➤ Model Training and Testing
- ➤ Data Labeling

In this internship, I implemented and trained a model for face detection using the HOG algorithm, and it was tested over different faces under different environments and conditions.

Projects:

•	Mobile Crane Truck using SolidWorks	November 2021
•	Mechatronics System Design projects using Raspberry Pi (here is the demo)	December 2021
•	Circuit Controller for a smart public toilet	December 2021
•	Smart irrigation system on LabView	April 2021
•	Machine learning model to detect hand-written characters(OCR)	October 2022

Skills:

• Programming Skills: Python, HTML, CSS, Java

Certified Full Stack Web Developer
 February 2021

Certified SolidWorks Mechanical Designer
 October 2021

Experience in myRIO, Arduino, and Raspberry Pi
 April 2021

• Certified in Machine Learning with Python

April 2022

• Languages: Arabic (fluent), English (fluent)

Activities:

- Member in the Google Developer Student Club
- Member in the Robotics Club