Ramzi Haddad

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EDUCATION

American University of Beirut

BE Mechanical Engineering with distinction GPA: 3.6/4.0

Beirut, Lebanon Sep 2016 - May 2020

Work Experience

HiveMateCofounder
Beirut, Lebanon
May 2020 - Present

- Developed and productionized an intelligent device monitoring bee hives using artificial intelligence
- Secured 1st place and a \$20,000 investment from the AUB Accelerator Program

Center for Collision Safety and Analysis, George Mason University

Fairfax, VA

Research Intern

June 2019 - Aug 2019

- Found and analyzed comparison metrics for short duration frontal crashes based on sensory data from NHTSA
- Helped in modeling a Volkswagen Passat for crash simulations

SKILLS

Programming Languages: Java, C++, Python, JavaScript, HTML, CSS, MATLAB

Software: LabVIEW, AutoCAD, SolidWorks, Altair HyperWorks, LaTeX

Libraries & Frameworks: PyTorch, TensorFlow, pandas, NumPy, Matplotlib, OpenCV, Keras,

Scikit-Learn, Django

Topics: Data structures, Algorithms, OOP, IoT, AWS, REST API,

Git, Convex Programming

Hardware: Raspberry Pi, Arduino, ESP32

Operating Systems: Linux, Windows

Languages: English, Arabic, French

Projects

Semantics in Deep Learning

Knowledge graph construction for reasoning in neural networks

Sentiment Analysis Using Neural Networks

Offensive tweet detection in Arabic using RNNs and BERT

NBA Predictive Model Using Deep Learning

Predicting future NBA stars using selective metrics

Object Tracking Using Computer Vision

Tracking objects using OpenCV and HSV color space

IoT Communication with ESP32

Communication with ESP32 to upload photos to AWS S3

IoT Communication with Raspberry Pi

Communication with Raspberry Pi using REST API

Stabilizing Quanser 3DOF Hover Quadcopter

Controlling quadcopter via LQR and adaptive controllers using MATLAB & Simulink

Radar System

Radar system using Arduino Uno and LabVIEW via serial commands

Interests

Artificial intelligence, machine learning, NLP, software development, optimization, control theory, data analytics, chess, soccer, swimming