

Hadi Charara

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PROFILE

Passionate student interested in Control Engineering, Automation and Robotics. Strong foundation in engineering, with practical experience in data analysis and predictive modeling. Eager to apply skills to solve complex problems.

EDUCATION

Bachelor of Engineering, Electrical and Computer Engineering August 2021- Expected June 2026
American University of Beirut (AUB), Beirut, Lebanon

Erasmus Exchange Program, Electrical and Computer Engineering January 2025-May 2025
Trinity College Dublin (TCD), Dublin, Ireland

SKILLS

Languages: Arabic (Native), English (Fluent)

- Python
- C++
- C
- LabView
- MATLAB
- Simulink
- SQL
- ROS
- Git

WORK EXPERIENCE

Stress Monitoring Cap February 2024-April 2024
American University of Beirut, Lebanon

- Developed the Stress Monitoring Cap, a revolutionary cap designed to monitor stress levels and soothe the user with music based on their emotional state.

Research on Distributed Optimization February 2024-September 2024
American University of Beirut, Beirut, Lebanon

- Engaged in a research project focused on distributed optimization of Energy Systems, supervised by Dr. Dany Abou Jaoude.

Data Science Intern June 2023-September 2023
Zero&One, Beirut, Lebanon

- Engaged in data processing, exploratory data analysis, feature engineering, and model development, while integrating Flask API and a MySQL database for an AI resume Screening project.

Control of VTOL System September 2024-December 2024

- Implemented a Full State Feedback controller with Disturbance Rejection to control the Quanser VTOL

EXTRA CURRICULARS

UNICEF Club (Active Member) September 2023-Present

- Executed volunteer initiatives promoting children's rights at schools and organizations

Hiking Community (Leader) September 2020-Present

- Lead school hikes in various areas around Lebanon with a great and increasing community

LICENSES & CERTIFICATIONS

AWS Cloud Practitioner, ID: RERTFHSCSER4QSK1 July 2022-Present