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Tripoli, Lebanon

LANGUAGE

• English: C2 Proficient

French: B1 Intermediate

Arabic: Native

SOFTWARE

- Python / C++
- MATLAB / Simulink
- ROS (Robot Operating System)
- SQL
- Flutter
- Ubuntu (Linux)
- Labview

SOFT SKILLS

- Leadership
- Team-Building
- Organization
- Adaptibility

Rayan ABDUL SAMAD EL SKAFF

Electrical and Computer Engineer

EDUCATION

American University of Beirut

Beirut, Lebanon

From 09/2021 to 06/2025

- Bachelor's in electrical and computer engineering, with a track in control systems and robotics
- Dean's honor list for the academic year 2023-2024

Rawdat El Fayhaa Secondary School

Tripoli, Lebanon

From 09/2007 to 07/2021

Lebanese baccalaureate: official in 2021. Mention: Very Good

EXPERIENCE

<u>Internship, GIPSA lab - Université de Grenoble Alpes</u>

Grenoble, France

From 06/2024 to 07/2024

 Modeled and controlled, using MATLAB, an unmanned aeriel vehicle (UAV) and an unmanned ground vehicle (UGV) robot for cleaning solar panels.

PROJECTS

Nurse Robot (engineering final year project): From 08/2024 to 05/2025

- Developed a nurse assistance robot to handle routine tasks, enhancing workflow efficiency.
- Flutter application with Node.js as the backend for user login, task scheduling, as well as real-time robot monitoring and control using Robot Operating System (ROS) integrated with the Flutter app.
- Develop a linear quadratic regulator to control the robot's nonlinear states.
- → Recipient of AUB's **Dean's Creative Achievement Award** for outstanding innovation in engineering.
- → 2nd Place **Winner at IEEE iCORE** FYP Demo Day Competition 2025 hosted by the Lebanese American University.

Steer By Wire:

52h

• Designed multiple controllers (PID, lag-lead, lead) for the Steer by Wire system using Quanser, MATLAB, and Simulink.

Human Posture Corrector Sensor:

32r

• Designed a wearable posture correction device using Arduino and sensors.

Digital Twins Localization for XR Systems:

40h

• Collaborated on a research project (DIDYMOS-XR, funded by EU) to integrate digital twins into extended reality (XR) systems.

Control a quadrotor helicopter:

30h

 Modeled a quadcopter's nonlinear dynamics in Simulink and compared the performance of feedback linearization and adaptive sliding mode control.

EXTRACULLICULAR ACTIVITIES

Volunteer, IEEE R8 SYP Congress

Grenoble, France

From 06/2024 to 07/2024

- Promoted smooth interaction and engagement for 300+ participants.
- Managed event communications and facilitated social activities.

Cabinet Member, AUB Robotics Club

Beirut, Lebanon

From 08/2024 to 06/2025

• Organizing events related to robotics and control systems: engineering design challenge, build-it weekend, Arduino and Raspberry Pi workshops.