

Elias Khneisser

Email: eliashkneisser2@gmail.com | Tel: +961-71987415

EDUCATION

AMERICAN UNIVERSITY OF BEIRUT - AUB

Bachelor of Engineering, Computer and Communication Engineering, GPA: 3.61/4.0

Beirut, Lebanon
Sep 2021 - Expected Jun 2025

- Placed on Dean's Honor List for Spring 2021 and Fall 2022
- Concentration Area: Control and Intelligence Systems

SSCC KFARHBAB

Lebanese Baccalaureate Degree with Honorable mention in General sciences

Ghazir, Lebanon
Sep 2007 - July 2021

- Ranked first in physics and chemistry for three consecutive years
- Elected twice among 120 students as class representative and mediator between students and administrative staff

PROFESSIONAL EXPERIENCE

AMERICAN UNIVERSITY OF BEIRUT - AUB

Research Assistant

Beirut, Lebanon
Sep 2023 - Present

- Grasped in-depth knowledge of Autocomplete techniques for 3D Motion in UAV Teleoperation
- Familiarized with the implementation of open-source robot operating system ROS, nodes, and packages
- Worked with Graduates to craft intricate robot simulations in Gazebo

AMERICAN UNIVERSITY OF BEIRUT - AUB

Python Teaching Assistant

Beirut, Lebanon
Aug 2023 - Dec 2023

- Delivered assistance in coding through student-focused approaches to convey complex concepts easier
- Applied my proficiency in Python to weekly assess 20+ students and enhance their academic success

MULTIMODAL SHIPPING SERVICES

Part Time Intern - Computer Technician

Beirut, Lebanon
Jun 2022 - Aug 2022

- Provided user technical support for device interfacing
- Configured useful programs to improve operational performance and to better store backup data
- Mentored by professionals on implementing security measures against cyber threats

PERSONAL PROJECTS

MULTIPLAYER GAME DEVELOPMENT

April 2023 - May 2023

- Created both client and server components, efficiently managing connections, disconnections, and idleness detection
- Utilized socket programming techniques to ensure reliable network communication

CONTROL OF DC MOTOR DRIVE FOR STEER-BY-WIRE APPLICATIONS

Oct 2023 - Present

- Successfully led the design of a precise DC motor control system meeting strict performance requirements
- Demonstrated strong analytical skills to achieve accurate steering response within $\pm 2^\circ$

EXTRACURRICULAR ACTIVITIES

AUB ROBOTICS CLUB

Cabinet

Beirut, Lebanon
Oct 2023 - Present

- Directed the clubs' biggest Arduino workshops with 60+ attendees and 4 speakers
- Organized 2 Hackathons and Build-It Weekends for over 150 participants

AUB VARSITY TRACK AND FIELD

Team Captain

Beirut, Lebanon
Sep 2022 - Present

- Spearheaded and motivated a team of 15 athletes to rank 2nd across all Lebanese universities
- Orchestrated weekly physical training sessions to foster a culture of dedication and teamwork

SCOUT DU LIBAN

Chief

Ghazir, Lebanon
Oct 2011 - Aug 2022

- Managed a dynamic patrol of young scouts and arranged camps throughout a full calendar year
- Executed impactful projects aimed at fundraising the construction of new locals for the group

SKILLS & PERSONAL

- Programming Languages:** Python, C++, RISC-V, LabVIEW, MATLAB, VHDL
- Tools and OS:** ROS, Linux, Windows, GitHub, PSpice, Embedded Systems Design
- Languages:** English (fluent), French (fluent), Arabic (native)