Leen Kahwaji

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EDUCATION

American University of Beirut (AUB) | Beirut, Lebanon   2023-2027

- **Bachelor of Engineering in Electrical and Computer Engineering (ECE), 3rd Year**
  Expected graduation: Spring 2027
  Mandatory university summer internship - eligible Summer 2025-2026

Relevant Coursework:
Data Structures & Algorithms, Electric Machines and Power Fundamentals, Digital Systems Design, Computer Organization, Engineering Electromagnetics, Electronics, Analog Signal Processing, Signals and Systems, Electronic circuits, Fundamentals of Power System Analysis, Building Management Systems, Digital integrated circuits (Ongoing- Spring,2026), Power Systems Design, Control and Protection (Ongoing-Spring,2026), Introduction to Machine Learning (Ongoing- Spring,2026).

All of which were completed with their respective Labs.

Lebanese Evangelical School Tyre (L.E.S.T)- High school Diploma, 2023

High honor student; actively participated in school events and academic competitions.

TECHNICAL SKILLS

Programming & Scripting:

Python, C/C++; basic familiarity with HTML, Java, Arduino, and Git/GitHub workflows

Hardware and ECE tools:

Verilog, Pspice, LabView, MATLAB, TinkerCad, Basic Cad

Cloud and Platforms:

Amazon Web Services (AWS); completed a 3-day ML AWS bootcamp with a certification.

Productivity and Collaboration:

Microsoft Office, Mural, Slack

Languages:

Arabic (Native), English (Fluent), German (completed A1, A2 in progress)

Academic and Technical Projects

Elevator Logic Control Design (Fall 2024-2025)

Course Project- AUB

- This was a solo Verilog Project.
- I designed elevator control logic using **digital logic concepts** and **state machines**.
- I implemented and simulated control behavior (floor selection, door control, safety logic).

Traffic Light Logic Control System (Spring 2024-2025)

Lab work-AUB

- Developed traffic light sequencing logic for a multi-road intersection using Verilog.
- Implemented timing and priority rules to manage traffic flow and ensure safe transitions between lights.

Too Good to Go- AWS project (Summer 2024-2025)

- Led backend work: designed the APIs and DynamoDB schema and implemented core serverless Lambdas (listings, browse, order/reserve logic).
- Built front-end & integrations: wired React/React-Native prototypes to the APIs, added Google Sign-In (Cognito), S3 image uploads (pre-signed URLs) and Stripe webhook handling.

Smart Irrigation System- Arduino Based Control (Fall 2025-2026)

Team project- AUB

- I took on a Leading role where I suggested this project, divided the roles and made sure to track the team's progress.
- I did thorough research on the background, hardware and software parts of this project.
- Wrote embedded code (C++/Arduino) to read sensor data and trigger irrigation automatically.

- This project was not implemented but everything theoretical was completed with the aim to use this project to help farmers in southern Lebanon restore and nourish their agricultural lands after the war. Focusing on reducing water waste and manual effort.

Building Management System and Power Design (Fall 2025-2026)

Team Project- AUB

- Worked on building management system (BMS) designs including **power distribution, lighting design, fire & protection, UPS, and PV sizing**.
- We inspected the Charles Hostler building thoroughly and then presented our findings, I handled the PV calculations and suggested improvements to the Building's PV and fire protection systems by doing research and seeing what fits the building.
- We also did thorough research on Electrical Power distribution, taking roles as experts to present our findings to the class.

I am currently researching and working on my own ML focused Projects.

Other Experiences

- **English Teacher Assistant- LEST (2020-2023):** Prepared sample essays, exam questions, and worksheets for English classes.
- **English, Math and Science Tutor (freelance, 2020-2023):** Tutored junior students who needed extra help.
- **After-School Skating Club Assistant – LEST / Local Club (2020–2023):** Helped run skating sessions and taught children (ages 5-14) how to skate
- **Long-term experience rescuing and fostering cats, reflecting responsibility and compassion.**

SOFT SKILLS & INTRESTS

Soft Skills: Problem-Solving, Analytical Thinking, Teamwork and collaboration, Leadership, Communication, Adaptability.
Hobbies/Interests: Reading, Gaming, Renewable energy and smart systems, ML, skating, music and volunteering.