

Mona Kouzi

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Computer Engineering Student | Software Development | Embedded Systems | Networking

Computer Engineering student with a strong academic foundation and hands-on experience in software development, embedded systems, circuit design, and networking. Skilled in developing practical engineering solutions through academic and project-based work. Seeking an internship or entry-level opportunity to apply technical knowledge, strengthen professional skills, and contribute to real-world engineering projects.

EDUCATION

Bachelor of Engineering in Computer Engineering

Expected May 2027

Beirut Arab University (BAU) — Debbieh, Lebanon | GPA: 3.45

High School Diploma

2023

Ikhaa National School — Beirut, Lebanon

TECHNICAL SKILLS

Programming:	C, C++, Java, Python, Assembly (MPLAB), MATLAB
Web & Software:	React, React Native, Node.js, Express.js, MongoDB, JSON, GUI Development
Hardware & Embedded:	Arduino, PIC Microcontrollers, Raspberry Pi, Digital Electronics, Sensors, Motor Drivers
Networking & Security:	Cisco Packet Tracer, VLANs, OSPF, DHCP, Static/Default Routing, Kali Linux, Burp Suite, Cryptography
Tools & Simulation:	Proteus, Tinkercad, CircuitVerse, Quartus, PSIM, Simulink, LabVIEW, Excel, Word, Canva
Soft Skills:	Problem-solving, Teamwork, Communication, Organization, Multitasking, Technical Documentation

PROJECTS

Hospital Management System – Revive

May 2026

- Developed a full-stack hospital management platform featuring admin, patient, doctor, nurse, and staff portals.
- Implemented appointment management, ward and admission tracking, patient records, billing, reports, and role-based access control using React, Node.js, Express.js, MongoDB, and React Native.

Smart IoT Helmet

Oct 2025 – Dec 2025

- Built a smart helmet system with GPS tracking, SOS alerts, alcohol detection, and drowsiness monitoring.
- Implemented wireless engine-lock control and real-time monitoring via the Blynk platform to improve riders safety.

Enterprise Network Design – VLAN & Routing

May 2026

- Designed and configured a multi-branch enterprise network using Cisco Packet Tracer.

- Implemented VLANs, trunking, router-on-a-stick, DHCP, OSPF, static/default routing, and inter-VLAN communication.

Medical Insurance Charges Prediction

May 2026

- Built a machine learning model to predict medical insurance charges using Linear Regression.
- Performed data cleaning, preprocessing, exploratory data analysis, feature encoding, normalization, model training, and evaluation using Python.

College Management System Database

May 2026

- Designed and implemented a relational database for managing students, staff, courses, departments, fees, attendance, and marks.
- Created ER diagrams, SQL tables, primary/foreign keys, constraints, indexes, and full report documentation.

Water Level Monitoring and Pump Control System

May 2026

- Developed an Arduino-based water level monitoring system using ultrasonic sensors, an OLED display, pump control, and IoT connectivity.
- Implemented automatic pump activation based on real-time tank water level readings.

Marine SOS & Location Signaling System

Mar 2025 – Apr 2025

- Developed a PIC-based emergency signaling system using Assembly language, LCD display, GPIO control, and Morse code communication.
- Designed to support SOS alerts and location signaling in marine emergency scenarios.

CERTIFICATIONS

- Lebanese University CTF 2025 — Certificate of Participation

VOLUNTEER EXPERIENCE

Student Care Volunteer – Dar Hanan School

2017 – Present | Beirut, Lebanon

- Assisted in organizing annual summer events for students, including food, entertainment, and community activities.
- Welcomed and supported attendees, helping create a friendly and inclusive environment.

Food Distribution Volunteer – Ikhaa National School

2019 – 2020 | Beirut, Lebanon

- Participated in preparing and distributing meals to individuals and families in need.
- Collaborated with peers and teachers to support organized community service activities.

Community Support Volunteer – Group NGOs

2020 – Present | Beirut, Lebanon

- Donated and distributed essential supplies, clothing, and resources to underprivileged communities.
- Supported families affected by financial hardship through basic aid and community assistance.

LANGUAGES

Arabic:	Native
English:	Fluent (Speaking, Reading, Writing)