

RAZAN MOKDAD

Computer Engineer Student

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Beirut, Lebanon

PROFILE

Computer Engineering student with a focus on embedded systems and digital communication. Passionate about integrating software and hardware to design efficient, real-world solutions. Known for dedication and consistent effort toward expanding technical knowledge, mastering new concepts, and developing practical engineering skills.

WORK EXPERIENCE

Secretary — IEEE Student Branch (Founding Member)

AL-Maaref University | 2026 – Present

- Co-founded the IEEE Student Branch; managing communications, documentation, and branch activities.
- Organizing technical workshops, seminars, and events for the engineering community.

Teaching Assistant — C++ Programming

AL-Maaref University | 2023

- Assisted students with C++ concepts, lab exercises, and debugging.
- Supported instructor in lab management and coursework delivery.

Self-Employed Tutor

Freelance | 2023 – Present

- Tutored school students and helped them improve their academic performance.

PROJECTS

Graduation Project – Design and implementation of an analog array sensor acquisition platform (In Progress).

ALU Schematic & Layout — VLSI Design

Designed a full ALU based on MOSIS-CMOS C5 technology using Electric VLSI Tool (schematic + layout).

Radio Bandpass Filter — RF Design

Designed and simulated a radio-frequency bandpass filter using ELSIE.

PLL Implementation — Digital Communications

Simulated Phase-Locked Loop behavior using MATLAB.

Control System — Double Tank Water Level

Modeled closed-loop water-level control system using Simulink/MATLAB.

Microcontroller Game — PIC18 Assembly

Developed a mini interactive game on PIC18 MCU in Assembly.

Multi-Subnet Network Design

Configured multi-subnet topology with routing, servers, and dynamic IP using Cisco Packet Tracer.

Database & Web Application

Designed a relational database connected to a front-end website.

EDUCATION

Bachelor in Computer Engineering

AL-Maaref University, Beirut

GPA: 3.96 / 4.00

Expected Graduation: February 2027

ACHIEVEMENTS

- Dean's Honor List — 4 consecutive years (2022–2026)
- 4th Place — Microelectronics Olympiad Lebanon 2026

TECHNICAL SKILLS

Programming

▸ C++, Python, Java, SQL

Hardware Tools

- Electric VLSI Tool / ELSIE (LC Filter Design)
- PSPICE / LTSpice / ALTIUM
- MATLAB / Simulink
- GNU Radio
- Microcontroller: PIC18 / Cisco Packet Tracer

Domains

- VLSI Design (Schematic & Layout)
- Signal Processing & Control Systems
- Digital Communications
- Networking & Cryptography
- PCB Design
- Embedded Systems
- FPGA

Personal Skills

Analytic Mindset, Attention to details, Teamwork, Adaptability, Problem solving

CERTIFICATES

- Honorable Mention — International Microelectronics Olympiad, 2026
- MATLAB — Beginner Level
- PCB Design

EXTRACURRICULAR

- IEEE Student Branch — Secretary & Founding Member
- COE Engineering Club — Organization Member
- University Open Day — Volunteer, Student Orientation for High Schoolers