

MARIE-JOE EL BITAR

Electrical Engineering

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📍 Baouchriyeh, New Rawda

EDUCATION

Engineering student at the Lebanese University

2023-present

ULFGII-Roumieh grade :75/100

Lebanese Baccalaureate certificate of Secondary Education (GS)

2022-2023

Collège Notre Dame des Apôtres - New Rawda grade : 18/20

WORK EXPERIENCE

Private tutor

September 2024 - Present

I privately tutor high-school students in mathematics, physics, and chemistry, focusing on simplifying concepts, adapting to each student's needs.

EXTRACURRICULAR ACTIVITIES

LAU Case Competition – Finalist

- Shortlisted after the qualifying round among participating teams.
- Developed strategic solutions for real-world cases in collaboration with MSD,MSE & Deloitte.
- Conducted market analysis and strategic recommendations under tight deadlines.

IEEE club

- Managed social media and promoted company collaborations and hiring campaigns at the faculty

Mechatronics club

- Promoted club activities and contributed to organizing a 2025 national competition involving students from multiple high schools.

Scout Member

- Active member at Jarrah Scout - Ras Baalback : involved in teamwork, community service, leadership activities, and event organization

ACADEMIC PROJECTS

Renewable Energy System Simulation

- Developed a LabVIEW-based renewable energy system with dynamic load control and state-machine implementation.
- Calculated solar panel sizing, battery charging/discharging behavior, inverter capacity, and system efficiency.
- Evaluated technical and economic performance through ROI, LCOE, and energy optimization analysis.

Real-Time Remote Patient Monitoring System

- Designed an embedded patient monitoring system with schematic and PCB development in EagleCAD.
- Integrated biomedical sensors, BLE communication, microcontroller, and power management circuits.

TECHNICAL SKILLS

- Microsoft office suite (Word, Excel, PowerPoint) & SQL
- programming: C++ , C# , OOP, MatLab, Java, Python
- design : Solidworks, AutoCad, Eagle , LabView.

LANGUAGES

- Arabic
- French (fluent)
- English (fluent)