Jamal El Chaar

4th year Computer & Telecommunication Engineering Student at ULFG1

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EDUCATION

Computer & Telecommunications Engineering — 10/2022 – 7/2027

Lebanese University - Engineering Diploma

- **Relevant Courses:** Inferential Statistics, Probability, Algebra (1 & 2), Calculus (1,2,3 & 4), OOP (C#), Numerical Methods, Numerical Analysis, Operational Research, Control Systems, Signal's Theory, Telecommunications, Networking.
- **Relevant Labs:** Linux, Web Development, LabView, MATLAB, Python, Electronics, Logic Circuits, Microprocessors.

EXPERIENCE

STEM Instructor — 7/2023 – 1/2025

Junior Engineers (Tripoli, Lebanon)

Designed curricula and taught robotics courses for children, including Arduino UNO (IoT projects and smart security systems), HuskyLens & Gravity (DFRobot), LEGO Mechanical Kit, LEGO EV3, LEGO WeDo 2.0 and electrical circuits.

Biomedical Lab Intern — 7/2025 – 9/2025

Doctoral School of Science & Technology – Lebanese University (Tripoli, Lebanon)

Acquired and processed electrophysiological signals (EEG, ECG, EMG) using specialized software for data acquisition, analysis, filtering, and artifact suppression.

Summer Intern — 8/2025

Ogero Telecom (Tripoli, Lebanon)

Learned about Central Office OCB systems, fiber optics (including the IMEWE submarine cable system), switching architectures, transmission methods (SDH/PDH), and signal routing.

CERTIFICATIONS & PROJECTS

Certifications:

- Machine Learning Specialization (3 Courses) | Stanford Online
- EEG Data Analysis Foundations Workshop | Dimagh Academy
- BADEEL Entrepreneurship Program | AUF (Prize: 500€)
- Le numérique au service de la société compétition | AUF (Rank : #2, Prize : 300€)
- Introduction to Computational Neuroscience | Arabs in Neuroscience
- SDG Brain Lab Program | UN Global Compact Network Lebanon
- Hackathon : Adaptabilité face aux crises | AUF (Rank : #2)

University Projects:

- **Nano Invaders game:** Developed an M68k assembly language mini game using the EASy68k simulator.
- **Solenoid Engine:** Developed a functional prototype and utilizing 3D printing for component fabrication.
- Water Pump & Security system using **Arduino UNO**.
- Simulated the Hodgkin-Huxley neuronal model using **MATLAB**.

SKILLS

Core Skills: Python, MATLAB, C#, HTML, CSS, JavaScript, Linux (UBUNTU), VHDL, Assembly.

Tools: VS Code, Visual Studio, EEGLAB, Arduino IDE, Deeds-DcS-FsM-McE, Proteus, Quartus II, OrCAD, LabVIEW, AutoCAD.

Languages: Arabic, English, French.

VOLUNTEERING

Institute of Electrical & Electronics Engineers (**IEEE**) ULFG1 Student branch — 10/2022 – Present

Roles: Board Member (2022/2023), President (2023/2024), Ambassador IEEEXTREME 17.0 (2023), Vice President (2024/2025), Public relation Officer and Consultant (2025/2026).