

Zaynab Baalbaki

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EDUCATION

Lebanese University - Faculty Of Engineering

Bachelor of Engineering – Telecommunication Engineering (AVG: 81.10/100)

Beirut, Lebanon

Expected July 2026

• **Relevant Coursework:** Signal Theory, Microprocessors, Data Analysis, Linear Algebra, Operations Research, Network, Concurrent programming, Fiber optic, Telephony, Machine learning, Telecom, Electronic, Database, Probabilities and Statistics, Object Oriented Programming.

Lycee Haret Hreik

Lebanese Baccalaureate in Life Sciences (AVG: 18/20)

Beirut, Lebanon

August 2021

Overall rank on Lebanon: 27

WORK EXPERIENCE

OGERO, completed a 5 weeks internship, gaining valuable insights into the field of telecommunications and understand how communication networks operate and how government policies influence the telecom sector.

PROJECTS

Simulation Social Media, Object Oriented Programming, using C++, understand how the main features of social media platforms work.

Smart Parking System, using Arduino, the Smart Parking project introduces an innovative approach to optimizing parking spaces efficiently through the integration of various sensors.

Wide Energy Simulation, developed a MATLAB-based thermodynamics simulation to analyze the functioning and factors and movements of the wind turbine as influenced by environment and emplacement and other factors, while also computing power of the substance.

Parallel Image Filter Pipeline, using Java Concurrency, applying computationally heavy image filters to high-resolution images (4K).

VEFNux, Vault of Encrypted Files on Linux, presents a secure, command-line-based Encrypted File Vault system implemented in Bash on a Linux operating system.

Smart Team Assistant, A Goal-Driven AI Agent for Task Delegation and Tracking.

Smart Internet Speed Monitor an automated internet speed monitoring system using the Rock Pi S, a compact single-board computer. It measures download and upload speeds at regular intervals, logs the results locally, and sends performance alerts via Telegram.

COMPUTER SKILLS

Programming Languages: C/C++, C#, SQL, Java, Python

Applications: Microsoft Visual Studio, MATLAB, Proteus 8, AutoCAD, Arduino IDE, ADS, Eclipse
Microsoft Office.

CERTIFICATES

OPENCV BOOTCAMP

Supervised Machine Learning: Regression and Classification

Advanced Learning Algorithms

LANGUAGES

Arabic — English — French