

Eliana Baramili

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Professional Summary

Full Stack Web and Mobile Developer with hands-on experience building responsive web and mobile applications and developing RESTful APIs using modern JavaScript technologies. Strong engineering background in hardware and high-speed design, complemented by a solid foundation in IT systems and networking. Skilled in problem-solving with a focus on building scalable, and secure software solutions.

Core Competencies

- Web & Mobile Development
- Hardware and High-Speed PCB Design
- Network Design and Optimization
- Telecommunication Network Performance

Experience

Full Stack Web & Mobile Development – Intensive Online Workshop | Mentored by [Rony Rizk](#)

- Built responsive web applications using **HTML, CSS, JavaScript, TypeScript, and React.js**
- Integrated frontend applications with backend **RESTful APIs**, deployed on **Render**
- Developed backend services using **Node.js, Express.js, and MongoDB**, with database hosted on **Atlas**
- Tested APIs using **Postman**
- Implemented version control and team collaboration using **Git & GitHub**
- Applied modern UI frameworks such as **Bootstrap**
- Created cross-platform mobile applications using **React Native**, focusing on navigation, state management, Redux and push notifications

Freelancer | Feb 2025 – Present

Working on independent projects, ensuring reliable and efficient designs.

Multilane

Hardware Design – Signal Integrity Engineer | Sep 2020 – Nov 2023

- Executed hardware & high-speed projects (QDD112, OSFP112 MCB/HCB, and loopbacks), ensuring signal integrity, optimal performance, and adherence to design standards and customer specifications.
- Designed schematics using OrCAD Capture CIS and created multilayer PCB layouts with Allegro, optimizing component placement, trace routing, and stack-up for high-speed applications
- Performed 2D/3D simulations using Polar, CST, and HFSS tools to analyze impedance, S-parameters, crosstalk, and improve high-speed design topologies and trace performance
- Collaborated with SI engineers and cross-functional hardware, firmware, and mechanical teams to meet system-level performance targets and support data center infrastructure projects
- Participated in technical meetings and trained university interns, supporting knowledge sharing and aligning team efforts through collaboration and effective communication

Premiatek – Networking Intern | Aug 2019 – Oct 2019

- Implemented Cisco routing and switching for secure, scalable, and efficient network solutions.
- Deployed Microsoft Hyper-V virtualization and configured security packet filtration for data protection
- Designed enterprise network infrastructure using PRTG for real-time performance and monitoring optimization

ALFA – Telecom Intern | Jan 2019 – March 2019

- Optimized 2G, 3G, LTE clusters by analyzing and tuning worst-performing network cells
- Conducted post-KPI evaluations and coverage assessments to enhance mobile network performance
- Participated in Alfa site visits and prepared reports to monitor network efficiency metrics

OGERO – Telecom Intern | July 2017 – Aug 2017

- Handled xDSL, PDH/SDH, fiber optics, DWDM systems, and supported call center operations for optimized data transmission and telecom infrastructure performance

Academic Projects & Practical Experience

Embedded Systems

- Focused on the design and implementation of embedded systems for various applications

Microcontrollers

- Gained hands-on experience in programming and interfacing microcontrollers for automation tasks

Mobile & Wireless Networks (2G - 4G)

- Studied the evolution and operation of wireless networks from 2G to 4G technologies

Microwave Integrated Circuits (MMIC, RFID, S-parameters)

- Explored the design and application of microwave circuits and RFID technology

Antennas & Microwave Transmission Link

- Analyzed antenna communication systems and microwave transmission link technologies

Education

Antonine University

- Master's Degree – Telecommunication & Network Engineering | 2019

Certificates

- Cisco CCNA 1: Introduction to Networks
- Cisco CCNA 2: Switching, Routing, and Wireless Essentials
- Cisco CCNA 3: Enterprise Networking, Security, and Automation
- Cisco CCNA 4: Connecting Networks

Publication

Investigation of Driver EMF Exposure from 4G/5G Automotive Glass-Mounted Antennas | IEEE

- Studied driver EMF exposure from 4G/5G glass-mounted antennas, with the research accepted for publication at the APS Conference 2020

Technical Skills

- Visual Studio Code
- CISCO Packet Tracer
- Linux, Windows Server
- VMware Workstation, Hyper-V
- MATLAB
- Java, C, C++, C#
- HTML, CSS, Javascript, XML, JSX
- SQL, MySQL, MongoDB
- VHDL, Verilog
- Assembly Language

Languages

- English, Full Proficiency
- French, Full Proficiency
- Arabic, Native