

Rami Noueihed

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SUMMARY

Master's candidate in Computer Communication Engineering focused on Cisco networking and ML for digital comms. Built BPSK/8-PSK classifiers (Python/NumPy) with robust performance under AWGN, phase noise, and Rayleigh fading. Seeking roles in network engineering, software engineering or applied AI for communications.

EDUCATION

Master in Computer Communication Engineering.
Lebanese International University

Beirut, Lebanon
Expected 2026

Bachelor of Science in Computer Communication Engineering.
Art, Science & Technology University of Lebanon

Beirut, Lebanon
Jul 2023

PROFESSIONAL EXPERIENCE

Powertech IPT

Beirut, Sin El Fil

Network Engineer Internship

Apr 2023 - May 2023

- Assisted with smart IT system maintenance across **100** field sites, supporting daily diagnostics visits.
- Helped implement security protocols and site access, contributing to a **41%** reduction in network breaches.
- Worked with smart meters and integrated sensors to track usage and consumption, optimizing system efficiency.
- Provided technical support to **115** users daily, contributing to **98%** satisfaction via proactive issue resolution.

PROJECTS

Restaurant website (Senior Project)

- Built a dynamic restaurant webpage using Agile project management and a relational **SQL** database.
- Developed an admin page with an inventory system by creating relational tables to manage customer orders, quantities, statuses, and product details. The admin could add, edit, and view orders with real-time inventory updates.
- Included features like checkout with credit card info and a review section.
- Designed a responsive interface for laptops, tablets, and smartphones.
- Developed using **HTML**, **CSS**, **JavaScript**, and **PHP**.

BPSK and 8-PSK Perceptron Analyzer

- Developed a **Python**-based single-layer perceptron to classify Binary Phase Shift Keying (BPSK) symbols, achieving zero error on clean data and robust performance in high-noise environments (AWGN).
- Designed a multilayer perceptron (MLP) for 8-PSK classification, addressing AWGN, phase noise, and Rayleigh fading, with constellation plots and adaptive decision boundaries.
- Utilized NumPy and Matplotlib for data processing and visualization; implemented modular code for scalability.
- Ongoing: Refining 8-PSK MLP to improve accuracy under complex channel conditions.

TECHNICAL SKILLS

- **Programming Languages:** Python (NumPy, Matplotlib), Java, JavaScript, HTML, CSS, C++
- **Databases:** MySQL, PostgreSQL
- **Machine Learning:** Perceptrons, Neural Networks, Signal Processing (BPSK, 8-PSK)
- **Networking:** Cisco Device Configuration, Network Protocols (TCP/IP, OSPF), Network Security, VLAN, Routing
- **Tools:** VS Code, Jupyter Notebook, Packet Tracer, Git
- **Project Management:** Agile, SDLC
- **Languages:** Fluent in English, Native Speaker of Spanish, Proficient in Spoken Arabic

CERTIFICATES

- CCNA 1 by Cisco Network Academy.
- Networking Basics by Skill For all.
- IT Specialist - HTML and CSS by Certiport.