

Farah Ismaeil

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EDUCATION

Rafik Hariri University – College of Engineering

Bachelor of Engineering in Computer and Communication Engineering

Lebanon, Mechref

2022–2026

WORK AND LEADERSHIP EXPERIENCE

Middle East Airlines (MEA)

System Engineering Trainee

Lebanon, Beirut

May 2025 – June 2025

- Gained hands-on experience in LAN and WAN infrastructure, understanding design and troubleshooting.
- Learned about the configuration and deployment of IP cameras and secure servers in enterprise environments.
- Participated in setting up email filters and web filters to enhance cybersecurity measures.
- Explored virtual networking concepts including VLANs and network segmentation.
- Supported user management and permissions within Active Directory.
- Worked with SQL databases, assisting in queries and understanding relational database structures.

Rafik Hariri University

Coop and Alumni Office

Lebanon, Mechref

Jan 2025 – April 2025

- Data Entry.
- Managing office and organizing students' information.

Ogero

Telecommunication Engineering Trainee

Lebanon, Saida

July 2025 – August 2025

- Acquired knowledge of telecom infrastructure, including central office operations, cable connections, and home telephone systems.
- Learned the fundamentals of Wi-Fi access, router functionality, and router configuration.
- Gained understanding of how telecom services are delivered and maintained for end users.

Education Basket

Data Entry Specialist

Remote

May 2025 – September 2025

- Data entry and data accuracy verification.
- Organizing and managing data in spreadsheets.
- Updating and maintaining records and files.
- Managing tracking sheets.
- Updating and maintaining website content and data.

CERTIFICATES AND TRAINING

- ❖ CCNA: Switching, Routing, and Wireless Essentials – Cisco (Issued Mar 2025)
- ❖ CCNA: Introduction to Networks – Cisco (Issued Jan 2025)
- ❖ CCNA: Enterprise Networking, Security, and Automation – Cisco (Issued April 2025)
- ❖ Build Your Own ChatBot with OpenAI & LangChain – ZAKA (Issued Aug 2024)
- ❖ Introduction to Cyber Security – Cisco Networking Academy (Issued Jul 2024)
- ❖ Raspberry Pi Innovation Workshop – IEEE Lebanon Section (Issued Jan 2024)

ADDITIONAL SKILLS & INTERESTS

Strong understanding of networking concepts (IP addressing, routing, switching). Proficient in C, Python, JavaScript, HTML, CSS, jQuery, and embedded systems. Solid grasp of data structures, algorithms, and hardware-software integration. Effective communicator with strong problem-solving and teamwork abilities. Native Arabic speaker, fluent in English, and proficient in Turkish.

PROJECTS

- ❖ **VisionBridge – Bachelor's Final Year Project (AI & Embedded Systems):** Developed a wearable AI-powered assistive system designed to support blind and visually impaired individuals by helping them understand and interact with their surroundings in real time. The system integrates a head-mounted camera with real-time object detection using a custom-trained YOLO model, computer vision and image processing, an LLM that translates detections into natural language, wake word activation, 2D distance estimation, and text-to-speech output delivered through an earpiece. The experience is fully hands-free — the user activates the system with a wake word, selects a mode (detect, navigate, or ask), and receives spoken descriptions of their environment instantly.
- ❖ **Smart Parking System (Embedded Systems):** Built a prototype with Arduino for automated parking, featuring vehicle detection, secure entry, and gate control.
- ❖ **Hospital Network Infrastructure:** Designed a secure, scalable hospital network using VLSM, with future expansion in mind.
- ❖ **Network Design – Dunder Mifflin Paper Company:** Developed a segmented, scalable network with DNS, DHCP, static routing, and inter-department communication for Sales, IT, and Accounting.
- ❖ **ReadScape Website:** A dynamic book e-commerce website with live cart management, LocalStorage integration, JSON data loading, and a responsive UI using HTML, CSS, and JavaScript.
- ❖ **Coffee Shop Database:** Developed a coffee shop management system using a local database to handle employees, clients, and drinks, with role-based login, data validation, and real-time updates via Windows Forms and DataGridView.
- ❖ **Machine Learning Project – Rain Prediction:** Built an end-to-end predictive model using a real-world Australian weather dataset (145K+ records), including data preprocessing, feature engineering, and model development (Logistic Regression, KNN, SVM). Improved model performance on imbalanced data using SMOTE, hyperparameter tuning, and threshold adjustment.
- ❖ **Image Processing Project – Enhancement of Degraded Images:** Developed a Python and OpenCV pipeline applying multiple techniques (Gaussian blur, median/bilateral filtering, sharpening, and histogram equalization) to restore and enhance image quality. Evaluated improvements using PSNR and SSIM metrics, comparing different processing pipelines to select the most effective enhancement approach.