

# Mohamad Hajjar

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## EDUCATION

### Malta College Of Arts, Science and Technology (MCAST)

*Advanced Diploma In Networks and Systems*

Paola, MT

Oct. 2024 – June 2025

- Relevant Coursework: Database Management, Software Engineering, Systems Fundamentals, Multi-Media Development, Computer Networks, Web Development, Logic Programming, Embedded Systems

### Malta College Of Arts, Science and Technology (MCAST)

*Diploma in IT*

Paola, MT

Oct. 2023 – June 2024

- Relevant Coursework: Database Management, Object-Oriented Programming, Computer Networks, Web Development, Computer Systems.

### IIDE

*DIGITAL MARKETING FUNDAMENTALS*

Online Course

June. 2023 – June 2023

- Knowledge of business and its economic, legal and social context

## EXPERIENCE

### Independent IT Services Provider

*Freelance and Self-Directed Technical Work*

Birkirkara, MT

October 2023 – Present

- Performed computer hardware maintenance and software troubleshooting for personal clients
- Maintained and updated client websites with dynamic content and security improvements
- Provided home and small business network setup, including router configuration, IP allocation, and device management
- Implemented regular data backups and recovery solutions for individual clients
- Offered support for operating systems, printer setups, and peripheral devices in educational and personal environments
- Assisted peers and educational projects with IT support, cabling, diagnostics, and repair tasks
- Gained significant hands-on experience with Linux, Windows, and embedded systems through personal and collaborative projects

### eAvio d.o.o.

*Web Development Intern (On-site)*

Maribor, SI

September 4 – September 26, 2025

- Launched the new eAvio internship webpage built with **WordPress** and **Elementor**
- Structured content as a central hub for internships across software, electronics, design, and aviation; implemented responsive layouts and ensured branding consistency
- Explored advanced tooling including **Windsurf** (AI agent framework/IDE) and **Astro**-based frontends; collaborated with development and design teams and iterated on feedback

## PROJECTS

### Database Creation and Maintenance with Microsoft Access | *Access, SQL*

Oct 2023 – Feb 2025

- Designed and maintained a relational database in Microsoft Access
- Created tables, queries, forms, and reports to manage and analyze data
- Used SQL to manage and query the database

### Cisco Packet Tracer Network Design & Advanced Simulation | *Networking*

Oct 2023 – Present

- Designed complex office and co-working space networks with both wired and wireless solutions across multiple rooms and zones
- Created realistic star, bus, and mesh topologies with full device layout, routing logic, and signal propagation planning
- Configured Cisco routers and switches with advanced features including VLAN segmentation, trunking, STP, static/dynamic routing, and DHCP services
- Implemented NAT and PAT for internet access simulation, and used ACLs to restrict inter-VLAN communication and secure devices
- Simulated ARP, ICMP ping, IPv4 addressing, MAC address resolution, and protocol packet flow for testing and troubleshooting
- Used Wireshark alongside Packet Tracer to analyse HTTP POST vulnerability, revealing plain-text credential leakage over unsecured protocols
- Documented network performance, topology decisions, and security findings for assessment reports and educational submissions

**Virtual Network Setup with Virtual Machines | *VMware***

Feb 2024 – June 2024

- Deployed a virtual network with multiple virtual machines for testing and learning purposes
- Configured a virtual network with a firewall, DNS server, and a web server
- Used the virtual network to test and learn about network security, DNS, and web server configurations
- Used a virtual machine to experiment with malware and security configurations

**First Global Challenge 2024 | *Robotics***

June 2024 – October 2024

- Building the hardware of the Robot for the Competition
- Coding the Robot using Java
- Met people from all around the world, teamed up with multiple countries and helped each other and learnt a lot of new stuff.

**Smart Home Security System | *Raspberry Pi***

April 2025 – May 2025

- Designed and implemented a real-time home security system using Python and Raspberry Pi
- Integrated facial recognition (OpenCV + face\_recognition) with blink detection using dlib and EAR algorithm
- Enabled license plate recognition with YOLOv8 and EasyOCR using dual USB cameras for garage and front door monitoring
- Used PySimpleGUI to build a GUI interface for user navigation and control (face entry, plate entry, live feed)
- Implemented GPIO control of buzzers and LEDs to indicate access status for recognised/unrecognised faces and plates
- Set up Telegram bot integration to send alerts and screenshots of unauthorised attempts
- Managed data using Pandas, numpy, and saved logs/photos locally while allowing secure updates to encodings

**Beau Séjour Hotel Website Project | *HTML, CSS, JavaScript, Bootstrap***

March 2025 – May 2025

- Designed and built a fully responsive multi-page hotel website with a professional UI/UX for a real-world scenario
- Implemented dynamic image carousel using jQuery and Slick Carousel without relying on Bootstrap
- Created a consistent branded layout with custom header and footer design reused across all pages
- Used external and internal CSS with proper layering to ensure conflict-free responsive styling
- Included booking forms, gallery, shop pages, and integrated professional modal pop-ups and smooth transitions

**eAvio Internship Webpage | *WordPress, Elementor, Astro***

September 2025

- Designed and launched a new internship hub for eAvio d.o.o. (Maribor) during a one-month on-site internship
- Implemented responsive layouts, intuitive information architecture, and branding-aligned components
- Collaborated with cross-disciplinary stakeholders and evaluated advanced tooling such as Windsurf for AI-assisted development

## TECHNICAL SKILLS

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**Spoken Languages:** English, Arabic, Maltese

**Computer Languages:** Python, HTML+CSS, SQL, C-sharp, Bash

**Tools and Technologies:** Git, Docker, VS Code, Visual Studio, PyCharm, Linux, VMWare, OpenCV, dlib, YOLOv8, EasyOCR, PySimpleGUI, GPIOZero, Telegram Bot API, Raspberry Pi OS, Bootstrap, Cisco Packet Tracer, Wireshark, WordPress, Elementor, Astro, Windsurf