

Mohamed Aziz Allegue

IoT and Embedded Systems Engineer

📍 Soliman, Nabeul, Tunisia

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🇹🇳 Tunisian — Driving License



Personal Profile

Motivated IoT and Embedded Systems engineer with hands on experience in AI, IoT, and real time systems. Skilled at developing smart platforms that combine hardware, software, and cloud to solve real world challenges in agriculture, energy, and automation. Passionate about leveraging technology for social and environmental impact.

Education

BSc in Embedded Systems and IoT

Université Centrale Privée des Sciences Informatiques et des Télécommunications, Tunisia
(06/2025)

Baccalaureate in Mathematics

Lycée Route de la Plage, Soliman, Tunisia (06/2021)

Work Experience

Final-Year Project – Hybrid IoT Energy Management System

CIPEM, Tunisia

02/2025 – 06/2025

- Developed a real-time energy monitoring platform using ESP32 + PZEM-004T.
- Deployed dual Wi-Fi and GPRS modules for home and industrial use.
- Integrated Node-RED dashboard on Raspberry Pi 4 with anomaly detection and automation.
- Used MQTT, TLS, and SQLite for secure, local data handling.
- Results: $\pm 3\%$ accuracy, 9.2% energy savings, 4s GPRS latency.

Technical Internship – AI Accounting Assistant

Services Administratifs, Soliman

07/2023 – 08/2023

- Built "AISA" – an AI assistant using OCR and ML for automated accounting.
- Extracted and categorized financial documents with Tesseract OCR and PyTorch.
- Delivered a dashboard for reporting, anomaly detection, and task automation.

Key Projects

AI Disease Detector: AI-powered detection of olive tree diseases; accepted at IAMM'2024.

Augmented Reality App: Cultural AR app finalist at StartupLab.

E-commerce Sticker Site: Built space_shop for custom sticker sales.

ML Waste Robot: Developed autonomous ML robot for waste management (Hackflow 2024).

Certifications

- AWS Cloud Foundations – AWS
- Python Essentials 1 – Cisco
- Data Analysis – Le Wagon
- Big Data and Digital Marketing – Université Centrale
- Graphic Design – Club MIT
- Blockchain, CATIA, Illustrator – CryptoArt
- Game Development – CryptoArt
- 21st Century Skills – Honoris
- English (C1)– Gymglish, English(B2)-Duolingo, French (B2) – Frantastique

Technical Skills

- **Languages:** Python, C, JavaScript, PHP
- **Web Dev:** HTML, CSS, React
- **Mobile:** Flutter, Unity
- **Tools:** Git, Jira
- **Design:** Photoshop, Illustrator, Premiere Pro

Languages

Arabic: Native speaker

English: C1 – Professional Working Proficiency

French: B2 – Independent User

Hackathons

Hackflow 2024: ML-based autonomous waste management (Club Deepflow)

Swafython 2024: Student club discovery platform to boost engagement

B2B Hackathon 2024: Training center matchmaking platform (AIESEC Bardo)

Metaverse Hackathon 2023: AR/VR digital experience development (ISAMM)

Clubs and Volunteering

Enactus Club: Led and organized events ; assisted in planning university ceremonies. As an Enactor, contributed to social entrepreneurship projects aimed at creating positive impact through innovation, empowerment, and sustainable development. Participated in team challenges that aligned with UN SDGs and practiced real world problem solving in a startup like environment.

Cultural Club: Participated in cultural event planning and student engagement.

We Are Tunis: Sponsorship and operations support for cultural initiatives.

Personal Interests

- Exploring cultures through travel
- Organizing community events
- Storytelling through theater
- Tennis
- Chess