

GAIED Youssef

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GitHub: github.com/YoussefGaied | Portfolio: <http://youssefgaied.dev/>

PROFILE

Third-year Bachelor's (Licence) student in Computer Systems Engineering (Embedded Systems & IoT track), seeking a final-year internship (PFE) in embedded systems / IoT. I built an end-to-end ESP32 IoT system (firmware, MQTT, cloud, Android app, local-LLM decision making) and a bunch of other projects

EDUCATION

ISITCOM – Hammam Sousse

Expected June 2027

Higher Institute of Computer Science and Communication Technologies of Hammam Sousse

Bachelor's (Licence) in Computer Systems Engineering – Embedded Systems & Internet of Things track

PROJECTS

Smart Irrigation – AI-driven connected irrigation (2025)

ESP32, C/C++ (Arduino), MQTT, Firebase, Android (Java), n8n, Ollama/Mistral | github.com/YoussefGaied/smart-irrigation

- ESP32 system with soil-moisture, DHT22 and light sensors and a relay-driven pump; C/C++ firmware sends hourly data to Firebase and takes real-time MQTT commands.
- Native Android app for live readings and remote watering; a daily n8n workflow asks a local LLM (Mistral via Ollama) whether to irrigate.

Ludus – Social app for athletes (2026)

React Native, Expo, TypeScript, Supabase

- Mobile app with workout sharing, personal records, an activity feed and real-time notifications.
- Supabase backend (authentication, PostgreSQL, storage, realtime); closed beta tested and currently used by me and my local gym friend.

AR Dish Scanning – Augmented-reality restaurant menu (Aug 2026)

Next.js, TypeScript, Supabase, Three.js (WebXR), Polycam, Meshy.ai | pervoi.vercel.app

- QR-code menu built with a teammate for the restaurant Per Voi: tapping a dish shows it in AR on the table (WebXR on Android, AR Quick Look on iPhone).
- 3D dishes made with Polycam and Meshy.ai and compressed into GLB; admin area and French, English and Arabic interface.

EXPERIENCE

WattGo – Assembly & Test Operator, electric scooters

Jun – Aug 2025

- Trained in assembly and testing, then worked independently on the production line.
- Assembled and tested about thirty electric scooters: wiring of motor controllers, batteries and displays, with quality control before delivery.

SKILLS

Embedded & IoT : C/C++ (ESP32, Arduino), sensors (DHT22, soil moisture, LDR), relays, MQTT, HTTP/REST

Software : Python, Java, JavaScript/TypeScript, PHP, SQL

Mobile, web & backend : React Native/Expo, Android (Java), HTML/CSS, Supabase, Firebase, PostgreSQL, MySQL

Networking : TCP/IP, IP addressing, routing, Cisco Packet Tracer

AI & automation : n8n, API integration, local LLM (Ollama)

Tools : Linux (Ubuntu), Git/GitHub, VS Code, Vercel

ACTIVITIES

- AI Night Challenge (hackathon, 27–28 March 2026) : team leader of 5; built an AI model that detects heart problems from ECG signals and submitted it to the organizers.
- Scout leader, Mongi Bali Scout Group, Kalaa Kebira (2018–2020): led a group and organized activities.
- IEEE ESSTHS member (2024–2025): technical workshops and activities.

LANGUAGES

Arabic (native) | French (professional) | English (professional) | German (A1)