Mohamed Aziz Jlaiel

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PROFILE

I am a third-year student in communication electronics engineering at Enet'Com. Passionate about technology, embedded systems, and intelligent connected systems, I continuously develop my skills through hands-on projects. Motivated and curious, I am ready to take on new professional challenges.

EXPERIENCE

Sfax Digital Research Center Jul 2025 – Aug 2025

Summer Internship: Smart Belt for Pregnant Women

– Constructed an AI model to analyze physiological sensor data and detect abnormal patterns.

– Applied machine learning techniques for early risk detection and signal classification.

ENET'Com Feb 2025 – Apr 2025

Final Year Project: Auto-Balancing Robot

– Built a two-wheeled self-balancing robot using MPU6050 and PID control on Arduino.

– Evaluated robot performance to ensure stability and robustness.

SMARTIS Consulting Jun 2024 – Jul 2024

SOPAL Mobile App – Driver Booking and Reservation System

– Developed a mobile app for SOPAL to manage driver reservations, including user registration, booking, and confirmation.

– Technologies used: Android Studio, React Native, SQLite

ACADEMIC PROJECTS

AI Agent for IT Skills and Roadmap Guidance Oct 2025

– Created a web-based AI chatbot using NLP and web scraping to deliver real-time IT learning guidance.

Object Recognition Simulation using ROS and CNN Nov 2025 – Present

– AI-Based Object Recognition with ROS: Developed a ROS-based AI system for real-time object classification using a CNN model built with TensorFlow. Processed images with Python . visualize data with NumPy, Pandas, and Matplotlib, and implemente ROS nodes and topics to publish detection results .

ESP32-WROOM-32D Custom Board Design — Altium Designer Oct 2024

– Designed a complete ESP32 custom board including power management, USB-UART, GPIO routing, and DRC validation.

SKILLS

Programming	C, C++, Python, VHDL
AI / ML	CNN, TensorFlow, PyTorch, OpenCV
Microcontrollers	Arduino, STM32, ESP32, Raspberry Pi
Embedded Systems	ROS, STM32CubeIDE, Arduino IDE, Sensors, Actuators
Software Tools	Git, Linux, Altium Designer, ModelSim, Intel Quartus II
Other	Adaptability, Time management, Teamwork, Fast learner

CERTIFICATIONS

C++ Advanced — Cisco Networking Academy Oct 2025 – Now

Raspberry Pi Platform and Python Programming — Coursera Dec 2024

Machine Learning For All — Coursera May 2024

ADDITIONAL INFORMATION

Languages: Arabic (Native), English (Fluent), French (Proficient)
Interests: Robotics, AI, ROS, Embedded Systems, IoT, New Technologies

EDUCATION

2023 – Present	**Engineering Cycle in Communication Electronics Engineering**, ENET'Com, Sfax
2021 – 2023	**Scientific Preparatory Cycle**, IPEIS, Sfax
2021	**Baccalaureate in Experimental Sciences**, Tunisia