Rhim Yosra

Embedded Software, Telecommunications and AI Engineer

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Profile

Currently pursuing an engineering degree, I am a final-year engineering student with a strong passion for Artificial Intelligence, Embedded Software, and IoT. I bring solid technical expertise and strong analytical and problem-solving skills. I am seeking a 6-month internship to advance my career by contributing to innovative AI-driven projects and developing impactful technological solutions.

Experience

Development Intern and IA , Leoni – Sousse   June 2025

- Engineered a Smart Stage web application using **Node.js**, **MongoDB**, **React , Angular** and Power BI, integrating **AI** features to automate report generation.
- Designed and deployed an intelligent dashboard leveraging **AI** models to enhance visibility, streamline performance tracking, and optimize internship management efficiency.

Networks and IoT Intern , Dräxlmaier –Sousse   Aug 2024

- Implemented an **IoT** system with **Power BI** visualization and real-time alerts for device monitoring.

Development and Robotics Intern , CRMN –Sousse   Jan 2023 - June 2023

- Developed a telemedicine platform with a mobile robot applying **React, SQL** and **Firebase** enable remote consultations and automate tasks.

IoT Intern ,WattsElectronis – Monastir   Aug 2022

- Designed electronic boards for a smart environmental monitoring device, integrating sensors and leveraging **Arduino/ESP32/STM32, IoT, C/C++, MQTT,** and **Python** .

Education

National Private Engineering School - ESPRIM   September 2023 – June 2026

- Engineering Cycle in Embedded Software Systems and Telecommunications

Higher Institute of Computer Science and Mathematics - ISIMM   September 2020 – June 2023

- Bachelor's Degree in Embedded Systems

High School - Monastir   June 2020

- Baccalaureate Diploma in Technical Sciences

Projects

Machine Learning – Predictive and Classification Models

- Developed Machine Learning projects, creating and optimizing predictive and classification models.

  Skills: Python, Pandas, NumPy, Scikit-Learn, TensorFlow, Matplotlib

Embedded Systems / Robotics – Fire-Extinguishing Robot

- Designed and integrated a fire-extinguisher with ESP32 and Robot Otto, combining microcontrollers, sensors, and embedded software

  Skills: ESP32, Microcontrollers, Sensors, Embedded C/C++, Robotics, Automation

Web Development / Data Management

- Developed a Full-stack management application using Node.js, MongoDB, REST API , demonstrating backend

development

Skills: React, Angular, Spring Boot, Node.js, MongoDB, REST API, Full-Stack Development

IoT / Smart Devices

- Developed multiple IoT projects using Arduino/ESP32, integrating sensors, MQTT, and embedded programming for real-time monitoring and automation.

  Skills: Arduino/ESP32, IoT, Sensors, C/C++, MQTT, Python, Real-Time Alerts

Technologies

Languages : C/C++, Java, Python, JavaScript

Web Development : Frontend : HTML, CSS, React.js / Backend : Node.js, Spring Boot, API REST

Databases : MySQL, MongoDB, Firebase

Embedded Systems and IOT : STM32 , ESP32 , Raspberry Pi, Arduino / IDE : STM32CubeIDE , Arduino IDE

Artificial Intelligence : Yolov5/v3 , Pandas , NumPy , Scikit-learn, TensorFlow , Matplotlib

Networks and Security : Cisco Packet Tracer, DHCP

Tools and Environments : Git, Power BI, VSCode, MATLAB

Certifications

- Getting Started with Deep Learning & AI for Predictive Maintenance　　　　　　　June 2025
- Fondamentals of ROS Code　　　　　　　March 2025

Languages

Arabe : Native　　　　**Français :** C1 (Fluent)　　　　**Anglais :** B2 (Intermediate)