SAAD RAJEB

Young graduate with a Bachelor's degree in Embedded Electronic Systems Engineering from EST Salé. Passionate about microcontrollers, automation, and embedded systems.

CONTACT INFORMATION

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SKILLS

- Programming Languages: C/C++, Python, Assembly (ARM/NIOS), VHDL
- Microcontrollers: ESP32, Arduino, Raspberry Pi Pico, PIC16F877
- Operating Systems & Real-Time Systems: FreeRTOS, IoT, Mosquitto
- Design & Simulation: FPGA, PROTEUS 8, LABVIEW, Matlab
- Development Tools: VS Code, Arduino IDE, MikroC, Git/GitHub
- Communication Protocols: CAN, UART, SPI, I²C
- Automation Tools: TIA Portal (Ladder / Grafcet)

LANGUAGES

- Arabic – Native
- French – Good
- English – Good

INTERESTS

- Reading
- Cinema
- Sports

PROFESSIONAL EXPERIENCE

Maintenance Technician – YAZAKI Kénitra
Final-year internship

- Strengthened my technical skills and knowledge of the labor market.
- Gained hands-on experience in a dynamic industrial environment.

Diagnostic Technician – Temara Diesel
Internship

- Acquired practical experience in diagnostics and repair.
- Learned the operation of key automotive electronic and mechanical components.

Technical Internship – École Supérieure de Technologie de Salé (2 months)

- Designed an automated model with Profinet communication between S7-1500 and S7-1200 (ET200SP).
- Implemented HMI visualization.
- Developed a feeding/extruding program (motors 1000/1200 rpm).
- Designed a temperature regulation system using a type-K thermocouple, heating resistor, and cooling motor.

ACADEMIC PROJECTS

Audio Signal Visualization via INMP441 Microphone (ESP32 + Python)

Real-time acquisition, processing, and display using I²S, FFT, PyAudio, NumPy, and Matplotlib.

Final Year Project: Automatic Trajectory Tracking (KONA Car)

Implemented CAN bus communication programmed in Python.

EDUCATION

Moroccan Baccalaureate – Physics Sciences
IBN ROCHD High School, Temara – 2021/2022

University Diploma of Technology (DUT) – Industrial Embedded Systems
École Supérieure de Technologie de Salé – 2022/2024

Bachelor's Degree – Embedded Electronic Systems Engineering
École Supérieure de Technologie de Salé – 2024/2025