SAKLY Chiheb Eddine

Electrical Engineering Student
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About Me

Electrical engineering student at the National Engineering School of Monastir (ENIM), passionate about embedded systems, PCB design, and software development. I enjoy designing and experimenting with electronics and embedded systems, whether by developing prototypes, optimizing circuits, or exploring automation and signal analysis. Programming and testing my ideas help me bring my ideas into reality.

Each project is an opportunity for me to learn, innovate, and transform a simple idea into a concrete solution.

Skills

- **Electronic Design (PCB):** Altium Designer, KiCAD, Power Supply (PSU, SMPS), Signal Integrity, ESD/EMI Protection
- **Numerical Simulation:** Proteus, LTSPICE, PSIM, MATLAB
- **Microcontrollers:** Atmega, ESP32, STM32, PIC16F
- **Programming:** C/C++, Python, Rust, Java
- **Hardware Programming:** VHDL, FPGA
- **Automation:** Control Systems, PLC, Siemens-TIA-Portal, S7-300, Industrial Networks, LADDER
- **Office Tools:** MS Office, LaTeX, Markdown
- **Others:** HTML-CSS-Javascript, React, Node.js, BDD-testing, Unit-testing PHP, MySQL, Assembly x86, PIC, AVR

Professional Experience

Development Internship (1 month – Online) FROVIA | January – 2025

- Development of an automated testing solution for sensors in simulation (Mock test cases)
- Integration of various LLMs and performance testing
- Optimization of the AI model for automatic BDD test script generation

Observation Internship (1 month – On-Site) STEG | July – 2024

- Analysis of STEG documentation standards
- Study of the electrical grid capacity for new subscribers
- Customer relations (subscribers) and administrative procedures
- Field study of the HTA/BT electrical network with various operational teams

Education

National Engineering Diploma in Electrical Engineering ENIM | 2024 – Present **Preparatory Cycle in Mathematics – Physics** FSM | 2023

Personal Projects

- Design of an 8-Bit Microprocessor and implementation of 4 basic instructions (on Github)
- Implementation of mathematical/physical simulations in Python (on Github)
- Development of a Line-Following Robot using the STM32F4 NUCLEO board
- Development of a reflex game using C++ and the Windows standard library WinAPI

Extracurricular Activities

- Active member of the Robotics Club INGENIM | 2024
- Active member of JCI JCI, Khniss | 2024

Interests

Video Games, Competitive Programming, Chess