



# MOHAMMED AMANSOUR

## Electrical Engineering & Industrial Systems Graduate

Electronics, Embedded Systems, Automation, IT

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### TECHNICAL SKILLS

- **Programming:** Python, C/C++, Ladder, Assembly, LaTeX, Kotlin
- **Software/Tools:** MATLAB, Catia, Simulink, Multisim, AutoCAD, VS, PSIM, LTspice, Android Studio
- **OS:** Linux, Android, Windows
- **Collaboration:** Git, GitHub
- **Hardware:** Microcontrollers, PIC, Arduino, Raspberry Pi, STM32
- **Databases:** MySQL, phpMyAdmin
- **Web Development:** HTML, PHP, JS, CSS, WordPress, XML

### LANGUAGES

- **Arabic:** Native
- **English:** Fluent
- **French:** Advanced (DELF B2)
- **Spanish:** Intermediate
- **German:** Beginner

### CERTIFICATIONS

- **EY:** Green Skills Passport
- **Huawei:** Next-Gen Cyber Security
- **Microsoft:** Implement RAG
- **LinkedIn:** PLC Program Flow

### SOFT SKILLS

Problem-Solving, Collaboration, Communication, Time Mgmt, Adaptability, Critical Thinking

### HOBBIES

Learning languages, Chess, Running, Weight-lifting, Writing, Reading

### PROFESSIONAL SUMMARY

Electrical Engineering recent graduate, passionate about electronics, embedded systems, & automation. Experienced in electronics, embedded programming, full-stack development. Seeking entry-level roles in embedded systems or automation.

### EDUCATION

**B.Sc. in Electrical Engineering & Industrial Systems** 2022-2025

Faculty of Science and Technology (FST), Tangier

Key courses: Electronics, Solid Mechanics, Embedded Sys, Telecom, CAD

**High School Diploma in Electrical Sciences & Technologies** 2019-2022

Technical High School Moulay Youssef), Tangier

Key courses: PLCs, PCB Design, Tech Drawing, Transformers, Programming

### PROFESSIONAL EXPERIENCE (INTERNSHIPS)

**Embedded Systems Engineering | Aptiv, Tangier** Apr-Jul 2025 (3 months)

- Designed, Implemented and Tested a real-time cable identification system with embedded  $\mu$ CU, I2C serial communication & GUI interface.

- Tools: Proteus, Python, Ultiboard, C++, Arduino Mega, Integrated Circuits.

**Automation Engineering | Tanger MED, Ksar Sghir** Sep 2024 (1 month)

- Configured an anti-collision safety system with SICK real-time laser sensors & SIEMENS PLCs for detection & crane speed adjustment.

- Tools: SOPAS ET, Simatic Step 7, MATLAB, Ladder Logic.

**Full-Stack Development | Cloud Marketing Hub, Tangier** Aug 2024 (1 month)

- Created a school management app for tracking payments, attendance, configuring accounts, database management.

- Tools: WampServer, MySQL, phpMyAdmin, VS, PHP, HTML, CSS, JS, Bootstrap.

### ACADEMIC PROJECTS

**Software-Defined Multimeter**

- Built an Arduino-based multimeter for electrical signals measurement in real time throw serial monitor (Voltage, Current, Impedance).

- Tools: C/C++, Arduino IDE, Code::Blocks.

**Traffic Lights Control System**

- Designed, simulated, & implemented an automated traffic light system using flip-flops & logic gates to optimize cars & pedestrians flow.

- Tools: Arduino IDE, C, Proteus, Data sheets.

**Rectifiers (AC-DC) Modelling**

- Analyzed circuits for AC-DC conversion, perf improvements.

- Tools: Multisim, PSIM.

**Wien Oscillator & Filters**

- Evaluated oscillator, phase shift, freq response.

- Tools: Func Gen, Oscilloscope, Harm Dist Devices, Components.