



# ABDERRAHMANE ABDELOUAFI

SOFTWARE ENGINEER & TECH TINKERER

## CONTACT



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## EDUCATION

**PF - Front-end web Dev Programs**

ALX

Remote & Casa Tech Hub

Jan - Sept 2025

**Computer Sciences**

1337 IT School - UM6P

Benguerir Campus

2022 - Dec 2024

**Baccalaureus in Electrical and  
Technology Sciences**

Tassaut High School

Kelaa Sraghna

2021 - 2022

## EXPERTISE

**Programming Lang:** C, C++

**Robotics:** PCB design, Electronics,  
Arduino, ESP32, IoT

**Web Dev:** HTML, CSS, JS, PHP

**Database Tech:** MySQL

**Dev OPS:** Docker, Docker-Compose

**Others:** SHELL, APACHE, NGINX, GIT

## SOFT SKILLS

- Collaboration
- Adaptability
- Team Work
- Time Management
- Eager Learner
- Problem Solving

## LANGUAGES

- Arabic Native
- English Conversational
- French Intermediate

## PROFILE

Software Engineer and Tech Tinkerer with a solid background in both software and hardware development. Proficient in designing electronic circuits, robotics, and smart systems that seamlessly integrate with web platforms. Passionate about crafting efficient, scalable, and user focused solutions by merging creativity with technical expertise. Committed to continuous learning and delivering innovative solutions that have a meaningful impact in real world innovations.

## PROJECTS

### SAI42 - Smart Automated Irrigation

APR 3, 2025 - Present

- Developing a smart system combining **hardware** (electronics) and **software** (web platform) to automate plant monitoring and watering.
- Features include **real-time tracking**, **remote control**, **multi-plant management**, **data sync**, **user login**, **activity history**, and more.

### Portfolio Website

May 22, 2024

- Developed a **personal portfolio website** to highlight my skills, projects, and achievements.
- Fully **responsive clean layout**, ensuring an excellent **User Experience**.
- Integrated a **functional contact form** to facilitate direct communication.

### SDL42 - Smart Door Lock

JAN 13, 2023

- Built an advanced smart access control system using **Arduino**, **ESP8266**, and **RFID** technology for **LEETMAKERS**, the **Robotic Club** of **1337 IT School**.
- Implemented a **secure storage** of user IDs in system memory, ensuring **data persistence** even during power interruptions.
- Developed a web platform to **log** and **monitor** all **users' activity**.

## EXPERIENCE

### Local Domotic Competition - 3rd Edition

May 26 -28, 2023

Secured 3rd place in the **LDC - 3rd Edition**, held at **UM6P**. The challenge was to design and develop a **Smart Prison**. Through teamwork, we created an innovative and sustainable solution that incorporates digital automation to improve **efficiency**, **security**, and **management** within the facility.

### Youth Tech Competition Africa - 1st Edition

Feb - Aug, 2024

Contributed significantly to the YTCA, supporting its three main phases:

- **Pre-Selection Phase:** Designed and implemented a program to evaluate **100 Moroccan** participants, selecting **12** for the next phase based on their skills.
- **Formation Phase:** Partnered with the **1337 Robotics' Club** and **GTI** Department to deliver theoretical training in engineering science, along with hands-on workshops on **3D printing**, **electronics**, **Arduino**, **ESP32**, and **Raspberry Pi**.
- **Competition Phase:** Provided **technical support** and mentoring to **27** participants from **Morocco** and **Cameroon**, guiding them and ensuring smooth projects development and effective collaboration.