

SOULAYMANE AZZOUZ

MASTER'S STUDENT M1 | MICROELECTRONICS AND RADIO FREQUENCY



CONTACT

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Tetouan, Morocco

Soulaymane Azzouz

SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English : **Intermediate**
- French : **Conversational**
- Arabic : **Fluent**

REWARDS

Champion of the Under-14 category, Swiss system, at the International Chess Festival in Chefchaouen 2014.

Simultaneous Chess Champion at the International Chess Festival in Chefchaouen 2015.

Chess Champion Under-16 of Tangier-Tetouan at the Marjane Tetouan Tournament 2016.



PROFILE

I'm 21 years old, a Master's student at Abdelmalek Saadi University, Faculty of Sciences, Tetouan.

I specialize in microelectronics, RF systems, and embedded systems, focusing on RF circuit design and signal processing to solve modern technology challenges.



EDUCATION

Baccalaureate | Physical Sciences 2020 - 2021

Moulay Rachid High School | Chefchaouen

Grade : Fairly Good

DEUG | Physical Materials Science 2021 - 2023

Abdelmalek Saadi University | Faculty of sciences Tetouan

Grade : Good

Excellence Bachelor's Degree | MRF 2023 - 2024

Abdelmalek Saadi University | Faculty of sciences Tetouan

Grade : Very Good

Excellence Master's Degree | MRF 2024 - Present

Abdelmalek Saadi University | Faculty of sciences Tetouan



EXPERIENCE

Altium Designer | Freelance 2024 - Present

Printed Circuit Board Designer



- As a freelance PCB Design expert, I specialize in custom circuit layouts, from simple to complex designs.

Discord | Freelance 2020 - Present

Developer and Manager



- I am a Discord Developer specializing in custom bot creation and server optimization to streamline management and enhance user engagement.

Touch of Sacrifice 2023 - Present

Director and Founder



- **Touch of Sacrifice** is an online chess community hosted primarily on Discord. We offer high quality chess lessons, organize tournaments, and provide a space for players to improve and connect.

Innov'ed Center Nov 2023 - Aug 2024

Chess Coach



- I guide students in enhancing their strategic and tactical skills while providing a comprehensive learning experience.

SOFTWARE

- Altium Designer, Easyeda
- Proteus, LTspice
- SolidWorks
- Matlab
- Cisco Packet Tracer
- Mplab, Arduino IDE
- Quartus
- Discord

HARDWARE

- Arduino Uno
- Arduino Nano
- Esp32
- Raspberry Pico
- Raspberry Pi
- PIC16F877A

PROGRAMMING

- C Language
- Python
- VHDL Programming

MICROSOFT

- Power Point
- Word
- Excel

Sucess Center

Nov 2022 - Feb 2024

Physics Teacher

- Teaching Physics at the middle school level focusing on fundamental concepts and practical applications.

Microtech Club

Oct 2024 - Present

President

- In our club, we target students interested in Electronics, Robotics, IoT, and Embedded Systems, providing a supportive and creative environment for growth and learning.



FS Chess Club

Sep 2022 - Present

Consultant and Treasurer

- Our club helps students learn chess basics, master openings, improve skills, and participate in tournaments.



PROJECTS

Object detection and tracking using and YOLOv8 and Python

- The project focuses on mastering object detection and tracking techniques with YOLOv8, a cutting edge deep learning model and skills in computer vision applications.
- It includes five stages: introduction, understanding YOLO, image detection, video detection, and object tracking.

Design of XY Computer Numeric Control | Drawing Machine Plotter

- The ATMEGA328P processes drawing instructions and controls stepper motors to move the pen along the X and Y axes for accurate plotting.

Smart parking system using ESP32 and RFID Verification

- The project uses an ESP32 with Wi-Fi to monitor parking spots, while RFID is used for vehicle entry and exit verification. Sensors detect parking status, and an HTML website displays real time availability.

ESP32 LoRa GPS Tracking System | Printed Circuit Board

- The project uses Altium Designer for PCB design of an ESP32 based LoRa GPS tracking system.
- It integrates GPS and LoRa modules to provide long-range, low-power location tracking for remote or wide-area applications.

PIC16F877A | Architecture-Configuration and PCB

- The project uses Altium Designer for PCB design of a PIC16F877A-based system, focusing on its architecture and configuration for embedded applications.
- The PIC16F877A features a 14-bit wide instruction set, a Harvard architecture with separate memory for instructions and data, and integrated peripherals like ADC, PWM, and USART.
- The configuration includes setting up clock sources, I/O pins, and peripheral modules through the microcontroller's configuration bits for optimal performance in embedded systems.



CERTIFICATIONS

PCB Basic Design and Manufacturing | Altium Designer

Machine Learning Onramp | MathWorks

Python essentials 1 | Cisco Networking Academy

C for beginners | Great Learning

Introduction to Computer Vision | Great Learning

SolidWorks Secrets from Beginner to Advanced | Udemy