



## CONTACT

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## NETWORKS

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<https://github.com/AhmadAyedi>

<https://ahmadayedil.github.io/>

## EDUCATION

2019 - 2020 | Sadok Fkih high school

Baccalaureate in mathematics

2020 - 2022 | IPEIS

Two years at IPEIS in the Physics-Chemistry section

2022 - 2024 | ENIS

Electrical and Electronics Engineering

## PASSIONS

- Public Motivational Speaker (English)
- Chess (Ranking: 1400 ELO)
- Karate (Black Belt)
- Physics (Electromagnetism)
- Mathematics (Rigorous integrals and series calculus)

## LANGUAGES

- English (Fluent)
- French (Fluent)
- Arabic (Native)

# Ahmed AYADI

Electrical and IoT Engineering Student  
Looking for a Graduation Project

## SKILLS

- IoT Development with Web Integration:** ESP32 , Embedded C, Firebase, Raspberry Pi
- Frontend:** HTML, CSS, JavaScript (ES6+), React.js
- Backend:** PHP, Node.js, Express, RESTful APIs, Socket.io, WSL
- Databases:** MongoDB, MySQL, SQLite
- Version Control:** Git, GitHub
- Hardware:** Assembly (PIC16F84A), FPGA design, Electronic Circuits design
- Electrical Engineering:** Automated Systems, Electrical Machines, Power Semiconductor Components, Renewable Energy

## RELEVANT PAST EXPERIENCE

### Internships

#### X4IN Society

2022-2023

- Developing an IoT webserver using ESP32 to control devices (RGB LEDs) and monitor temperature remotely
- Tools:** ESP32, Embedded C, HTML, CSS, JavaScript, Firebase

#### TDS Society

2023-2024

- Building an Industry 4.0 LabWebShop website for clients to place orders and track real-time manufacturing progress.
- Tools:** HTML, CSS, JavaScript, PHP, MySQL, XAMPP

### Personal Projects

#### Backend Development:

2024 - 2025

- Creating backend systems for a bookstore, chat app, recipe blog, and to-do list.
- Tools:** Node.js, Express, MongoDB, REST APIs, WSL, Redis

#### Full-Stack Projects:

2023-2024

- Developing notebook and task management websites with user authentication and task tracking.
- Tools:** XAMPP, JavaScript(ES6+), PHP, MySQL

#### C++ Development (OOP) :

2023-2024

- Building a School management System for organizing students and teachers information
- Creating Games: chess, Bulls and Cows, word guessing game ,Ping Pong, Flappy Bird

#### VHDL (Hardware Description Language) :

2022-2023

- Implementing optimized mathematical operators using VHDL, focusing on reducing logic element usage and enhancing time execution.
- Tools:** ModelSim, VHDL, Quartus , FPGA

## CURRENTLY LEARNING

- AI :** Computer Vision, NLP
- Embedded Systems :** Raspberry Pi, STM32, MQTT over Websocket
- Linux OS :** Ubuntu, Raspberry Pi OS (Raspbian) based on Debian
- Backend Development:** Flask, for building APIs, integrating, and deploying AI models in software applications
- DevOps:** Docker for containerization, Kubernetes for orchestration, Ansible for automation, CI/CD pipelines with Jenkins for deployment and AI model integration, and Grafana/Prometheus for monitoring