

# DIALLO ABDOUL-MOUMOUNI

Cybersecurity and Embedded Systems Engineering Student

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github.com/diallo-am

Diallo Abdoul-Moumouni

## ABOUT ME

I am a first-year engineering student in Cybersecurity and Embedded Systems at the National School of Applied Sciences in Tetouan. With a solid background in system security, embedded programming, networking, and software development, I am seeking an internship to apply my knowledge and enhance my technical skills.

## SKILLS

**Languages:** C, C++, Python, Java, SQL, Bash

**Technologies:** AVR, TMS (TI), ESP32, UART/I2C/CAN, TCP/IP, Git, Linux, ADAS, Model-Based Design (Simulink)

**Tools:** Proteus, Matlab/Simulink, Atmel Studio, CCS, VS Code, Wireshark, CANoe, Vector tools






## PROJECTS

IoT and Embedded	<b>Smart Solar Tracker</b> Development of a solar tracking system based on ESP32 and LDR sensors, with data filtering, UART communication, and servo motor control via Arduino. <a href="https://github.com/suiveur-solaire">github.com/suiveur-solaire</a>
Embedded	<b>Smart Automatic Barrier</b> Implementation of an automatic barrier system controlled by an ultrasonic sensor and Arduino microcontroller. <a href="https://github.com/barriere-auto">github.com/barriere-auto</a>
ADAS and AI	<b>Traffic Sign Detection for ADAS</b> Development of a traffic sign detection system using a YOLOv8 model, integrated into a Python interface (Tkinter), with dynamic speed display on a graphical dashboard. <a href="https://github.com/traffic-sign-detection">github.com/traffic-sign-detection</a>
DSP	<b>DTMF Signal Detection with TMS320</b> Development of a DTMF signal detection system using a TMS320 processor. <a href="https://github.com/dtmf-tms320">github.com/dtmf-tms320</a>
Software	<b>Train Travel Agency Management App</b> Development of a management application in Java, with a graphical interface using JavaFX. <a href="https://github.com/gestion-agence">github.com/gestion-agence</a>

## EDUCATION

2019 - 2022	<b>High School Diploma in Mathematics and Physics</b> Honors	National Scientific High School of Bobo-Dioulasso (BFA)
2022 - 2024	<b>Integrated Preparatory Classes</b>	National School of Applied Sciences of Tetouan
2024 - 2027	<b>Engineering Cycle in Cybersecurity and Embedded Systems</b> Ongoing	National School of Applied Sciences of Tetouan

## CERTIFICATIONS

05/2025	<b>Certified in Cybersecurity (CC)</b>	 <a href="#">ISC2</a>
04/2025	<b>Introduction to Cybersecurity</b>	 <a href="#">Cisco Networking Academy</a>
07/2025	<b>Advanced Driver Assistance Systems (ADAS)</b>	 <a href="#">Udemy</a>
07/2025	<b>Model-Based Development with Simulink</b>	 <a href="#">Udemy</a>
07/2025	<b>Mastering CAN Network: Vector CANoe, CANalyzer, CAPL and Theory</b>	 <a href="#">Udemy</a>

## LANGUAGES

**French** – Fluent, **English** – Good command, **Arabic** – Basic