



Adam INAGHNANE

EMBEDDED SYSTEMS | IOT & FPGA DEVELOPER

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🏠 77 Avenue Moulay Ismail, Hassan,
Rabat

📍 Maroc

📅 26 years old

SKILLS

Embedded Systems & IoT:

Microcontrollers (Arduino, PIC, STM32), PCB Design & Routing, IoT Protocols, Signal & Image Processing.

Programming Languages:

C, C++, Python, Assembly.

Systems & Networks:

Linux, TCP/IP, Client-Server Architecture, Routing.

Web Development & Cloud (Cross-functional):

MERN Stack, JavaScript, React.js, FastAPI, Flask, Bootstrap.

System Design & Databases:

UML, Merise / MySQL, SQLite, Firebase.

LANGUAGES

French

Fluent

English

Fluent

Arabic

Native

Standard Moroccan Amazigh

CERTIFICATIONS

- Geospatial Data and Machine Learning for Climate and Environmental Applications

- Technovate Hackathon Competitor – AgriTech / HealthTech tracks.

- UM6P Nova Digital Hub Program

- TOEIC / IELTS Certificate

- Artificial Intelligence and Deep Learning.

SOCIAL NETWORKS

🌐 inaghnane

🐦 @inaghnane

ABOUT ME

With over 2 years of experience in technical solutions management and software development, I leverage a strong background in system architecture to engineer high-performance embedded and IoT solutions. By combining low-level hardware mastery (programmable logic, C/C++, microcontrollers) with a global vision of real-time and cloud architectures, I am fully equipped to deliver immediate technical value.

TECHNICAL & EMBEDDED PROJECTS

• Smart Home Sensor Monitoring System

Developed a real-time IoT monitoring system for smart homes.

Collected sensor data, implemented asynchronous processing, integrated anomaly detection, and exposed monitoring/alerting APIs.

Tools: FastAPI, Python, IoT, Asynchronous Architecture, OOP.

• Embedded Audio System & Bluetooth Speaker

Performed architectural analysis of standard electronic circuits and programmable logic devices (CPLD).

Handled hardware integration of a loudspeaker onto an existing Bluetooth board, including soldering and operational commissioning tests.

Tools: Arduino, C/C++, Electronics, PCB Design.

• Breast Cancer Diagnostic Prediction Web Application

Developed a machine learning application to predict whether a tumor is benign or malignant based on clinical biopsy data.

Tools: React.js, Python (Flask)

WORK EXPERIENCE

• IoT & Embedded Systems Developer

From Sept. 2025 to Jan. 2026 Leansoft Agadir

Project Lead for the design and development of a real-time fleet management and bus tracking application.

• Technical Solutions Lead

From Apr. 2023 to May 2025 Concentrix, AGADIR

Provided tier-2 technical support and resolved complex architectural incidents for international markets, including the UK, USA, and France.

• Apprentice MERN Stack Developer

From Mar. 2022 to Aug. 2022 Orion delta conseil, AGADIR

Graduation Project: Designed and deployed a connected web and mobile application for a water distribution association.

• Technical Lead – Fiber Optic Network Design

From Sept. 2021 to Dec. 2021 ID2S Télécom & Numerus 21, AGADIR

Professional Internship: Conducted design studies, compliance auditing, and maintenance engineering for security and alarm systems.

EDUCATION

• Master's Degree in Computer Engineering & Embedded Systems

From 2025 to 2027 Faculty of Sciences Agadir

• Bachelor's Degree in Computer Engineering & Embedded Systems

From 2024 to 2025 Faculty of Sciences Agadir

• Specialized Graduate Diploma in Software Development

From 2022 to 2023 The American Academy AGADIR

• Bachelor's Degree in Computer Engineering

From 2021 to 2022 Polydisciplinary Faculty Taroudant

• DEUP (University Diploma of Professional Studies) in Computer Engineering

From 2018 to 2021 Polydisciplinary Faculty Taroudant