

EL BOUYED Zainab

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 ZainabElbouyed

First-year engineering student specializing in Ubiquitous and Distributed Systems – Cloud & IoT. Passionate about new technologies, I have a particular interest in web development, connected objects, and innovative solutions that combine technology with real-world impact. Curious, motivated, and always eager to learn, I am seeking opportunities to apply my skills, develop new projects, and grow in a dynamic and stimulating environment.

Education

2024-Present	Engineering cycle at INPT - Ubiquitous and Distributed Systems Engineering - Cloud & IoT.
2022-2024	Preparatory classes for engineering schools (CPGE) PSI, Okba Ibn Nafea High School - Dakhla.
2022	Baccalaureate in Physical Sciences with highest honour, Lalla Khadija High School - Dakhla.

Projects

GreenTech SmartBin: Connected Solution for Sustainable Waste Management

October 2024 - Present

- Developed an intelligent waste bin using IoT, Arduino, and sensors for automated waste level tracking. Implemented AI-based algorithms for predictive waste analysis and optimized collection schedules. Created a web application using JavaScript, HTML, and CSS to manage and visualize collection routes efficiently.
- Improved waste management efficiency through real-time monitoring, optimized collection routes, and reduced environmental impact by reducing fuel consumption and carbon emissions.

Personal Portfolio Website | HTML, CSS, JavaScript et Bootstrap

January 2025 - March 2025

- Creation of my first personal website, an online portfolio, enabling the learning of web development fundamentals and the acquisition of design and layout skills.
- Determination to improve this project in the future by deepening knowledge and exploring new technologies.

GitHub Repo

Online Portfolio

Technical skills

DevOps Tools: Version Control (Git,GitHub), Bash scripting.

Programming Languages: Java (POO), C, C++ (POO), Python.

Web Development: HTML, CSS, JavaScript.

Frameworks: Bootstrap.

Embedded & IoT Development: Arduino, ESP32.

Embedded & Distributed Systems Architecture: Software Architecture (UML: Unified Modeling Language), Embedded systems architecture, Processor and memory management (CPU, RAM, cache optimization), Hardware-software interaction.

Operating Systems: Windows, Linux (Ubuntu).

Database Management: Relational databases (SQL).

Soft skills

Teamwork: Experienced in collaborating on group projects, actively contributing and supporting peers.

Communication: Able to clearly convey ideas, both written and verbal.

Problem Solving: Strong analytical thinking with a creative approach to troubleshooting.

Adaptability: Quick to learn new technologies and adapt to changing environments.

Time Management: Skilled at managing multiple tasks and meeting deadlines efficiently.

Languages

French: (B2)

English: (B1)

Arabic: (C2)