

BABA Salmane

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About me

Engineering student in Ubiquitous and Distributed Systems at INPT, passionate about technological innovation, software development and embedded systems. Experience in software development and embedded electronics through various academic projects.

Education

National Institute of Posts and Telecommunications (INPT)	Sept 2024 – May 2027
• Engineering Cycle – Specialization: Ubiquitous and Distributed Systems - Cloud and IoT	
Preparatory Class - TSI	Sept 2022 – May 2024
• Ranking 131	
Scientific Baccalaureate – STE	Sept 2019 – May 2022
• With honors	

Experience

Industry: Worked with an aluminum and glass carpenter	Every holiday
• Learning to use industrial tools	
• Working with great caution and concentration	
• Ability to find solutions to various problems	
Commerce: Worked with a merchant at Jemaa el Fna in Marrakech	2018
• Engaging in commerce	
• Interacting with different social classes and tourists	
• Discipline, responsibility, and honesty	

Projects

Automatic Shifter	salmanebaba.me
• Development of an intelligent gear shifting system using an ESP32 microcontroller	
• Tools used: C++, HTML, CSS, JAVA, ISIS, Arduino IDE	
GreenTech SmartBin: Connected Solution for Sustainable Waste Management	salmanebaba.me
• Designed and programmed a smart trash bin with proximity sensors and intelligent fill-level detection.	
• Developed an interactive web interface to manually or automatically update the bin fill levels.	
• Implemented dynamic map visualization, including a compact distance map and a detailed hybrid route map.	
• Built a route optimization algorithm prioritizing full bins and intelligently adding nearby ones for efficiency.	
• Tools used: Python, FastAPI, JavaScript, Folium, OpenCV, Arduino, C++, HTML/CSS.	

Technologies

Languages: C++, C, Python, Java, SQL, JavaScript, Assembly, Ladder, Latex
Technologies: Git, React, ISIS, Paket Tracer, Logisim