

Salma IZOUGHAR

Final-Year Engineering Student | Data, AI & Software | Internship from April 2027

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SUMMARY

Final-year engineering student at École Centrale de Lyon seeking a 6-month internship from April 2027 in data science, data analytics, applied AI or software engineering. Built Python ETL and data-quality workflows at OCP Group, delivered Kotlin/PHP software and Docker industrialization at IKNOVA, and developed a computer-vision engagement tracker using OpenCV and MediaPipe.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Kotlin, Java, PHP, JavaScript, C/C++, MATLAB
Data: Pandas, ETL, Jupyter, OpenCV, MediaPipe, Data Analysis, Data Cleaning, Anomaly Detection, Computer Vision
DevOps & Tools: Docker, Git, GitHub, GitLab, Linux, Kotest
Embedded Systems: Arduino, ESP01, NRF24L01, IoT, Sensors & Actuators

EDUCATION

École Centrale de Lyon <i>General Engineering Program – Double Degree</i> Écully, France	2025 – 2027
International Academy of Civil Aviation (AIAC) <i>Engineering Degree in Electrical Engineering, Electronics and Telecommunications</i> Morocco	2023 – 2025
Salmane Al-Farissi Preparatory Classes <i>MPSI–MP Preparatory Program (Mathematics & Physics)</i> Morocco	2021 – 2023

EXPERIENCE

IKNOVA <i>Software Engineer Intern</i>	May 2026 – Aug. 2026 <i>Lyon, France</i>
- Developed KAD-Xplore v4 in Kotlin/PHP, including software architecture redesign, backend/frontend development, graphics engine improvements and automatic SVG Gantt generation. - Built an application industrialization pipeline using Docker, Kotest, automated builds and performance optimization.	
SOTREG – OCP Group <i>Python Developer Intern</i>	Jul. 2025 – Sep. 2025 <i>Casablanca, Morocco</i>
- Designed a Python-based ETL pipeline (Pandas, OpenPyXL, Xlwings) to automate Excel data cleaning, transformation and preparation, reducing processing time from hours to seconds. - Performed data analysis and anomaly detection to improve data quality and support troubleshooting.	
Forges de Bazas <i>Electronics Design Intern</i>	Jul. 2024 – Aug. 2024 <i>Nouaceur, Morocco</i>
- Designed and implemented electronic circuits (fire detection and distance measurement systems) using KiCad. - Produced electrical schematics, prototyped embedded systems, and performed testing, debugging and functional validation.	

PROJECTS

AIAA Project, Personal Project, AIAC (Winner – 21st ENSEM Hackathon)	May 2024 – Present
• Developed an ESP01-based IoT system for sensor data acquisition, transmission and processing. • Analyzed athletes’ performance data in a connected systems environment.	
VitaCare (Winner – 22nd ENSEM Hackathon)	Apr. 2025 – Present
• Designed a wearable embedded system for physiological data monitoring. • Integrated sensors and wireless data transmission for continuous health monitoring applications.	
Wall Follower Robot, Personal Project, AIAC	Jan. 2024 – Present
• Developed an autonomous robot integrating sensors and a PID control system. • Tested, tuned and validated autonomous navigation performance.	
Screen Engagement Tracker, Personal Project, AIAC	Jun. 2024 – Present
• Developed a computer vision application using OpenCV and MediaPipe for user activity tracking. • Extracted and analyzed behavioral data to measure user engagement.	
InclineLeg, Personal Project, AIAC	Apr. 2025 – Present
• Developed a robotic system controlled by a smart glove using NRF communication. • Implemented real-time sensor acquisition and wireless control.	

AWARDS & HONORS

Winner – 21st ENSEM Hackathon (AIAA Project)	2024
<i>ENSEM Hackathon</i>	
<i>Recognized for an IoT system for athlete sensor-data acquisition, transmission and analysis.</i>	
Winner – 22nd ENSEM Hackathon (VitaCare)	2025
<i>ENSEM Hackathon</i>	
<i>Recognized for a wearable embedded system for physiological monitoring and wireless data transmission.</i>	

LEADERSHIP & ACTIVITIES

Enactus AIAC – Communications Manager

AEROLEC – Treasurer & Equipment Manager

LANGUAGES

French: C1 — English: B2 — Spanish: A2