

MOHAMED EL MOURABIT

Robotics engineer | IA engineer | Software engineer

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EXPERIENCE

Machine learning Engineer

Expleo - Permanent contract as a consultant

📅 Apr 2023 - Dec 2024 📍 Toulouse, France

- As a machine learning engineer at Expleo, I was responsible for on fusing data from various sensors such as radars, lidars, and cameras to achieve accurate detection of surrounding objects.
- I had the opportunity to analyze existing data fusion algorithms and evaluate their performance. I also proposed and implemented new approaches to enhance the accuracy and efficiency of object detection systems.

Embedded Software Engineer

Continental - Permanent contract as a consultant

📅 Apr 2022 - Feb 2023 📍 Toulouse, France

- Within the team responsible for the classification, consolidation and selection of types of radar objects. I had to design, develop and integrate embedded C/C++ algorithms on Continental's ADAS products, such as embedded algorithms for radar.

Data Scientist

Government of Andorra - Permanent contract

📅 Dec 2020 - Apr 2022 📍 Escaldes-Engordany, Andorra

- I have participated in the entire chain of creation of a National register of the territory and a National register of companies.

EDUCATION

Engineering Degree in Robotics and Interactive Systems (SRI)

Université Paul Sabatier Toulouse III - UPSSITECH School of Engineering

📅 Sep 2017 - Aug 2020 📍 Toulouse, France

- Specialized in robotics, embedded systems, and AI, with strong foundations in C, C++, and Python programming for robotic applications.
- Gained hands-on experience with mobile and industrial robots (Kuka, Staubli) and robotic middleware like ROS.

University Diploma of Technology (DUT) in Electrical Engineering and Industrial Computing

IUT Paul Sabatier

📅 Sep 2015 - Aug 2017 📍 Toulouse, France

- Acquired a solid foundation in electronics, automation, and embedded systems.
- Designed and programmed microcontroller-based systems in C for real-time applications involving sensors and actuators.
- Worked on practical industrial projects involving system modeling, control, and signal processing.

SUMMARY

Versatile Engineer with comprehensive expertise spanning artificial intelligence, embedded systems, and full-stack development. Combines technical depth across multiple domains to deliver integrated solutions for autonomous systems, robotics, and intelligent applications in various industries.

SKILLS



Robotics

ROS, SLAM, Navigation, Trajectory Planning, Sensor Integration



Artificial Intelligence

Python, TensorFlow, Computer Vision, Object Detection, Sensor Fusion



Programming

Python, C/C++, TypeScript, Java, MATLAB, Embedded Systems



Full-Stack Development

Angular, Django, Flask, Docker, Cloud Deployment



Development Tools

Git, Linux, Docker, OpenCV, Agile/Scrum, UML



Process Automation

N8N, Workflow Optimization, LLM Integration, API Development

MY PROJECTS



Technical Projects

MyraMyrror, Meal Prep Codex, Neonsys, Pi Baby Monitor

LANGUAGES

Spanish
Catalan
French
English
Berber

