

# MOHAMED EL MOURABIT

Robotics engineer | IA engineer | Software engineer

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## EXPERIENCE

### Machine learning Engineer

#### Expleo

Apr 2023 - Present 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.
- I was also involved in training a deep learning model on the nusenes dataset, specifically for radar data. This involved preprocessing and augmenting the radar data, designing the model architecture, and optimizing the training process to achieve high accuracy in object detection.

### Embedded Software Engineer

#### Continental

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

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.

### Intern - Digital image processing

#### IRT AESE - Saint Exupéry

Mar 2020 - Aug 2020 Toulouse, France

- Development of a digital method for the analysis and registration of topographic images.

## EDUCATION

### Engineering in Robotic and Interactive Systems (SRI)

#### Université Paul Sabatier Toulouse III - UPSSITECH école d'ingénieurs

Sep 2017 - Aug 2020

### DUT Electrical engineering technologies / technicians

#### IUT Paul Sabatier

Sep 2015- Aug 2017

## MY LIFE PHILOSOPHY

"No two things have been combined better than knowledge and patience."

## SKILLS



### Robotics

Programming with ROS, trajectory and collision computation, Rovio, computer vision.



### Artificial Intelligence

Experience with PyTorch, Detectron2, and AI-driven solutions for object detection and deep learning.



### Frontend Development

Building interactive web applications using Angular, TypeScript, and modern frameworks.



### Agile Methodologies

Skilled in Agile and Scrum methodologies for managing and executing software projects.

## STRENGTHS

Persuasive

Curious

Self-learning

GIT

Unix

UML

Latex

Rovio, ROS

## PROGRAMMING

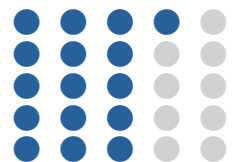
Python

C

C++

C Sharp

Typescript



## LANGUAGES

Spanish

Catalan

French

English

Berber

