

Double-degree Mechatronics and AI Engineer

Rayane GETA — Seeking a robotics/IA engineer position

📍 Open to relocation

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LinkedIn rayane-geta



rayane-maker.github.io

Education

ENSTA (National Institute of Advanced Technologies), Master of Science

- **Relevant Coursework:** Computer Vision, Radar and Remote Sensing, Software Engineering, Machine Learning, Linear and Nonlinear Optimization

Brest, France
September 2023 - 2025

ENSIL-ENSCI (National Graduate Engineering School of Limoges), Master of Science

- **Relevant Coursework:** Control Systems, Robotics, Mechanical Design.

Limoges, France
September 2021 - 2025

Professional Experience

Institut de Robòtica i Informàtica Industrial (IRI), Robotics and AI Engineer Intern

- Extended an assistive robotic feeding system to handle diverse unseen food types using ROS1 and BehaviorTree.CPP.
- Built a semi-automated food manipulation sandbox enabling simultaneous demonstration learning and systematic dataset generation.
- Designed embedded vision pipelines for food segmentation, texture classification, plate detection, and overflow analysis leveraging traditional computer vision and CNN (design and training).
- Implemented custom collision detection/response system enabling safe collaborative robot behavior and touch sensing.

Barcelona, Spain
May 2025 – Nov. 2025

Aerix Systems, Embedded System and AI Engineer Intern

- Developed monocular visual odometry for an omnidirectional drone in C++.
- Integrated a deep-neural network for 3D vision and odometry enhancement.
- Designed multi-threaded real-time perception-odometry software architecture.

Bordeaux, France
April 2024 – Aug. 2024

CRITT Automatisation & Robotique, Mechatronic Engineer Intern

- Designed, machined and assembled mechanical parts for industrial machines.
- Developed HMI software and programmed PLCs using Siemens TIA Portal.

Albi, France
May 2023 – Aug. 2023

Academic and Personal Projects

Multicam - School group project

- Supervised development of a multi-camera (ESP32-Cam) system for multi-person safety monitoring using YOLOv8.
- Implemented custom pose-estimation based multi-person tracker robust to occlusions.

More projects spanning robotics, AI, and software development in my portfolio: rayane-maker.github.io

Skills

Coding Languages

C/C++, JAVA, Python, Javascript, Matlab

Frameworks

ROS, BehaviorTree.CPP, Pytorch, Tensorflow

Control System

Matlab, Simulink, Amesim, CoppeliaSim

Mechanical Design

Solidworks, Catia, 3DEXperience

DevOps

Git, Docker, Google Colab

Languages

English, French, Spanish.

Soft Skills

Teamwork, Self-Learning, Critical Thinking, Problem Solving, Communication Skills.

Hobbies and Activities

- Hip Hop Dance (2015 - Present, Public performances, Styles : Animation, Popping, Krump)
- Shell Eco-marathon (2022, Main Pilot, Location: Assen, Netherlands)