



Othman BELGNAOUI
R&D engineering

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Education

UPSSITECH – University of Toulouse Robotics and Interactive Systems 2026

University of Toulouse BSc in Electronics, Electrical Engineering and Automation 2023

Experience

Stellantis - R&D Intern, Autonomous Vehicle March 2026 – September 2026

- Research and development of LiDAR-LiDAR, LiDAR-camera and LiDAR-GNSS calibration tools
- Improvement of calibration ease and accuracy.
- Definition of metrics and validation methods, and organization of test campaigns on vehicles.
- Presentations during work package meetings.
- Use of Point Cloud Library (C++), OpenCV (Python and C++), and ROS 1 and 2.

NAIST (Japan) - ROV Research Intern April 2025 – August 2025

- Development of an ROV simulation on Unity (C#) with 6 DOF haptic control.
- State of the art and comparison of control strategies (MPC, SMC, IOC) in Matlab/Simulink and drafting of a "human-in-the-loop" performance evaluation protocol.

Virobotic - R&D Intern June 2024 – August 2024

- Development of 9 algorithms (decision trees) in Python/OpenCV for medical equipment classification, results validation, achieved a 100% detection rate on a dataset of 10k images. Results analysis using Pandas.

Leadership & Projects

IRIT autoOCampus – Project Coordinator September 2025 – February 2026

- Development of the control and supervision interface (React Frontend) and communication layers with the vehicle (Python Backend, PostgreSQL, Flask, Socket.io, and MQTT).
- Organization of my team's work, customer requirements gathering, and release presentations.

TLS'e racing - Perception & Simulation Developer September 2025 – February 2026

- ROS 2 development: package migration, simulation (Gazebo/Rviz), and data fusion (Extended Kalman Filter).

STAND'UPS Robotics - Association President March 2024 – October 2025

- Association management, treasury, grant applications, communications, general meetings
- Coordinated 24 students in the design of a robotic arm. Used Angular, Python and Fusion 360.

Skills & Interests

Technical: Python, C++, Linux, ROS 2, Docker, Matlab/Simulink, Git

Soft skills: Coordination, teamwork, public speaking

Languages: French (native), English (TOEIC 955)

Interests: Climbing, Horse riding, Volunteering