PERSONAL DETAILS

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🏠 Montaigu-Vendée, France

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Portfolio: alecbossard.github.io

Driving license: Category B

LANGUAGES

English
French
Spanish

SKILLS

Robotics and Automation:

- ROS
- mobile robotics and autonomous navigation
- robotic modeling (Denavit–Hartenberg, Jacobians)

Planning & Control :

- A*, Dijkstra
- trajectory generation & smoothing

Optimization :

- gradient/Newton methods
- least squares

Robot Manipulators:

- 6-DOF arms
- workspace & singularities

Programming :

- Python, C, C++, Arduino
- Pandas, NumPy, Matplotlib
- PyTorch, TensorFlow and Keras

Computer Vision:

- preprocessing & augmentation

Collaboration :

- Teamwork

INTERESTS

Sports

Music

Travel & Exploration

ALEC BOSSARD

ROBOTICS ENGINEERING STUDENT AT UPSSITECH

PROFILE

Robotics & Autonomous Systems student (UPSSITECH), focusing on perception, state estimation, and motion planning for mobile robots.
Availability: Apr 15 – Aug 31, 2026.

EDUCATION

UPSSITECH – Paul Sabatier University, Toulouse
Engineering School in Robotics

2024 - 2027
Graduation: Jun 2027

CUPGE UPSSITECH – Paul Sabatier University, Toulouse
Preparatory Class

2022 - 2024

PROJECTS

TLSE Racing Project – 2025–2026

- Built and trained perception models in PyTorch (cone/track detection) dataset curation, augmentation, evaluation
- Implemented image processing and control modules using ROS / Python / C++
- Collaborated within a multidisciplinary technical competition team

"Fil Rouge" Project – UPSSITECH (2024–2025)

- Programmed in C and Python on Linux/Unix for communication and control
- Implemented automatic and voice-control driving modes
- Managed project planning, technical documentation, and physical robot integration

PROFESSIONAL EXPERIENCE

Temporary Worker – SODEBO

- Participated in food production processes
- Ensured compliance with hygiene and safety standards
- Worked effectively as part of an industrial team