

AXEL PARIS

Engineering Student | Robotics & Embedded systems

Seeking a 6-month Robotics Internship (April 2027)

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PROFESSIONAL SUMMARY

Engineering student at École Centrale de Lille, specialising in Embedded Systems and Cyber-Physical Systems, with a strong background in mathematics, software development and hands-on robotics projects. Experienced with ROS2, Gazebo, Python, Linux, C/C++, electronics, embedded programming and control systems through academic, professional and personal projects. Seeking a 6-month robotics internship starting April 2027, with a particular interest in robotic systems, embedded software and autonomous systems.

EDUCATION

Engineering Diploma - GPA: 3.8/4	2024-2027
École Centrale de Lille – Lille	
Specialisation: Embedded Systems and Cyber-Physical Systems	
Bachelor's Degree in Mathematics - With Highest Honours – Valedictorian	2024-2025
Université de Lille (Lille)	
Preparatory Class for top French engineering schools MP2I/MPI*	2022-2024
Lycée Kléber - Strasbourg	
Baccalauréat général - With Honours (Good)	2022
Lycée Fabert – Metz	
Specialties: Mathematics and Digital & Computer Sciences – Expert Mathematics	

EXPERIENCES

Compliance Robotics / INRIA DEFROST (Integration Project)	Sept. 2026 - March 2027
Development of a real-time system for detecting, intercepting and sorting moving objects by colour using a deformable robot: Python / Computer Vision / Motion Planning / Control	
Lille University Hospital (Junior Enterprise Centrale Lille)	May 2025 - January 2026
Development of a hearing test software for clinical use: Python	
Bunqer - Paris (Freelance)	Sept. 2025 - Jan. 2026
Continued development of an automated multilingual dubbing system based on multimodal AI: Python	
Bunqer - Paris (Internship)	July 2025 - August 2025
Creation of an automated multilingual dubbing system and movie thumbnail generation: Python	

Development of a web interface for monitoring compute servers with opportunistic job submission to the most suitable nodes: React / Node.js / Bash

PROJECTS

- **Sept. 2026** · 7-DOF Robotic Arm Simulation – ROS 2 / Gazebo (Personal project)
Developed a ROS 2 / Gazebo simulation of a 7-DOF robotic arm, with full end-effector pose control (position and orientation). [https://github.com/Lix4rex/robotic_arm_simulation]
- **Sept. 2026** · Robotic Hand – Mechanical Engineering / Control
Designed and developed a robotic hand, combining mechanical design and control
- **Aug. 2026** · Balancing Robot - Control Systems / Automation
Designed and developed a self-balancing robot, focusing on control and automation
- **May 2026** · 3-DOF Robotic Arm – ROS 2 / Gazebo / 3D Printing (Personal project)
Designed and built a 3-DOF robotic arm, including mechanical design, simulation and ROS 2-based control.
- **Aug. 2025** · Remote Controlled Car – Electronics / Programming / 3D Printing (Personal project)
- **Sept. 2024 - Feb 2026** · Protomia – 3D Reconstruction for surgical applications – (Centrale Lille project):
Developed a web application generating 3D models from 2D photographs for surgical applications using photogrammetry
Technology : Angular / Node.js

SKILLS

Robotics & Control

ROS2 · Gazebo · Control Systems · Automation · PCB Design (KiCad)

Embedded systems

C · Raspberry Pi · GPIO · Linux/Shell · Cross-compilation · Makefiles · Dynamic Memory Allocation

Software & systems

Python · C++ · Java · Git · Docker

Web development

Angular · React · Node.js · SQL · PHP

Other

Unity · C#

EXTRACURRICULAR ACTIVITIES

- ARCL - Software Team Leader (Robotics association of École Centrale de Lille)
Participation in the 2026 French Robotics Cup. Developed a ROS 2 / Gazebo simulation of the robot to test localization and trajectory-following algorithms before hardware integration (Raspberry Pi). Code available on GitHub: [https://github.com/Lix4rex/arcl_simulation]
- Member and Treasurer of Rézoleo (IT association and internet service provider for the Léonard de Vinci residence) : 2024-2025

LANGUAGES

- Français: Native
- Anglais: TOEIC (875/990)
- Allemand: Beginner

INTERESTS

- Sports (football, running, badminton)
- Guitar - Awarded the “Diplôme d'Études Musicales” from the Regional Conservatoire of Metz
 - With Highest Honours and Jury Commendation

ADDITIONAL INFORMATION

- Driving licence: B