

JOSEPH RIGAL

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Student at Centrale Lyon Engineering School, seeking a job in robotics and physical AI starting in November 2026.

EDUCATION AND QUALIFICATIONS

CENTRALE LYON ENGINEERING SCHOOL, PGE 2023 -2026

- Automation Master – Specialisation in ML and vision model

PREPARATORY CLASSES (CPGE) – LYCÉE CHAMPOLLION, 2021-2023

- MPI – MP* (Fundamental Math and Physics)

WORK EXPERIENCE

R&D Intern , Wormsensing, Grenoble France, 6 month, 2026

- I pioneered a proof of concept for non-visual robotic perception by integrating Wormsensing's Dragonfly® vibration sensor into LeRobot and routing live spectrograms as 'hacked camera' inputs. This trained robots to identify objects hidden inside opaque boxes, a task impossible with standard cameras. Benchmarked different sensor technologies, including dragonfly, accelerometers, load cells and strain gauges.

Data scientist Intern, Probayes, Grenoble France, 3 month, 2025

- I engineered a 10x speed increase in the conversion of PDFs to Markdown for DocParser by identifying and optimising the critical bottlenecks in a deep-learning document layout analysis pipeline.

Private math Tutor, Institut Fibonnaci, Lyon France, 3 years, 2024-2026

- Lycée du Parc, CHampollion MPSI (Mathematics, Physics for Preparatory Classes students).

Assembly line intern, Elistair, Lyon France, 4 weeks, 2023

- Assembling of Tethered Drones.

EXTRA CURRICULAR ACTIVITIES AND POSITIONS OF RESPONSIBILITY

HACKATHON WINNER :

- Won the 2026 Paris Builds x YC Hackathon, gaining access to a YC interview for the next batch (robotics Track). We built an external runtime safety layer for learning-based robots. VIGIE watches the robot and its workspace through environment cameras, detects dangerous situations, and can pause, hold and resume operations. Built in 36 hours with a live demo harness on OpenArm interfaced with LeRobot.
- 3rd place at the GOSIM Robotics Hackathon (Paris, 2026) on OpenArm robot, dealing with bimanual manipulation with tactile feedback.

LEJUNIOR END TO END PICK AND PLACE PIPELINE WITH A SO101

- Directing a VLA while hacking the webcam by drawing on the camera feed with instructions for the placement of objects (allowing different-sized boxes to be filled with a simple pi05 model), It allows long task completion with a sort of visual prompt injection.
- Part of a Start-up launch [Vlastir robotics](#) to automate long pick and place for small and medium enterprises, currently in the second round of Centrale Start'up challenge.

SCOUTING, 2023 - 2025

- Leader of a scout troop of 32 young people aged 12 to 17.

MECATRONICS SKILLS

DEV SKILLS

DEV TOOLS

LANGUAGES

SOCIALS

KiKAD, FreeCAD, SOLIDWORKS, Tactile sensors

Python, (PyTorch, Lerobot), C++

VS Code, Git

French Native – English, 99/120 TOEFL

[X](#), [LinkedIn](#), [Portfolio](#)

Trail & mountaineering since the age of 11 – Wind surfing – Semi professional runner (ranked 162nd in the French cross-country championships, 30:45 in the 10km)