

Yannis Loumouamou

Engineering Student at IMT Atlantique



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21 years old



Scan to view portfolio: yannisloum.github.io

Technical Expertise & Skills

- **Programming** : Python, C/C++, MATLAB/Simulink, ROS2
- **Computer Vision** : YOLOv8, image processing, indoor localization, fine-tuning
- **CAD/Simulation** : CATIA V5, Solidworks, LabVIEW, Control Expert
- **Systems** : Linux, Windows

Education

- 2023–2026 **Engineering Degree – Robotics and Interaction**, *IMT Atlantique, Nantes*
Generalist engineering training with specialization in Robotics and Interaction. Currently in 2nd year of engineering cycle. Focus on advanced robotics, AI, and embedded systems.
- 2024–2025 **Master 1 – Automation & Robotics**, *Université Clermont Auvergne (UCA), Clermont-Ferrand*
Advanced training in mechatronics with introduction to neural networks and artificial intelligence. Final year internship in computer vision at Institut Pascal.
- 2022–2024 **Bachelor's in Mechatronics**, *Université Clermont Auvergne (UCA), Clermont-Ferrand*
Training in mechatronics combining mechanics, electronics, and computer science. Acquisition of solid foundations in embedded systems and robotics.
- 2021–2022 **Preparatory Classes for Engineering Schools – MPSI**, *Lycée Blaise Pascal, Clermont-Ferrand*
Intensive preparatory program for entrance exams to top engineering schools. Focus on mathematics, physics, and engineering sciences.

Professional Experience & Projects

- 2025 **Wavestone Wave Game Challenge**, *Wavestone*
Selected participant for Wavestone's prestigious innovation and consulting challenge. Solving real-world business and technology case studies in a competitive environment. Development of creative solutions under time constraints.
- Apr–Aug 2025 **Intern in Deep Learning and Computer Vision**, *Institut Pascal, Aubière*
Adaptation of YOLOv8 for object detection on road scenes (multimodal images: RGB and SWIR).
- Sept–Jan 2025 **Indoor localization project**, *IMT Atlantique, Nantes*
Development of a vision-based localization device for IRT B<>COM.
- Oct–Dec 2024 **LIMO robot control project via ROS2**, *Université Clermont Auvergne*
Control of a LIMO robot with a video game controller joystick via ROS2.

Feb–May 2023 **Mini autonomous car project**, *Bachelor's in Mechatronics, Clermont-Ferrand*
Design of an autonomous car with parking assistance (Arduino).
Jul–Oct 2024 **Multi-skilled employee**, *McDonald's France, Gerzat*

■■■■■ Involvement & Leadership

Since Oct 2025 **Deputy Treasurer**, *AFNEUS (National Federation of University Science Students)*
Budget management, accounting oversight, organization of national events.
Apr 2025 **Student Representative**, *Université Clermont Auvergne*
Student representation at the University Council of Physics.
Oct 2023–2024 **General Secretary**, *RobotiClermont (Robotics Club)*
Administrative management, robot design, participation in competitions.

■■■■■ Languages & Interests

Languages: French (native), English (B2), Spanish (A2)
Interests: Geopolitics, robotics, football, cycling