# JOSEPH RIGAL

## ENGINEERING STUDENT

## CONTACT

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in Profil Linkedin

## COMPETENCES

**PROGRAMMING**
- Languages: Python, C++, TS
- Development Tools: VS Code, Git, Matlab

**ELECTRONICS**
- KiCad, LTspice, Arduino, Raspberry Pi.
- Image Sensors & Processing, Mechatronic Systems

**AI & ALGORITHMS**
- Machine Learning and Deep Learning

**AUTOMATION**
- intelligent mechatronic systems

## LANGUAGES

- French: Native language
- English: C1
- Spanish: B1

## INTERESTS

**SPORTS**
- **Mid-mountain activities**: climbing, mountaineering (Pierra Menta Junior).
- **Combat sports**: judo, boxing.
- **Athletics**: 32'02 in the 10km, cross country.

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

## PROFILE

I am seeking an internship at the intersection of automation and AI. I hold a Master's degree in Automation and am following additional courses in Artificial Intelligence to complete my profile. My multidisciplinary background at Centrale Lyon has given me experience in AI, machine learning, and embedded systems, complemented by internships in both AI-driven software and robotics. This internship will allow me to consolidate my expertise in automatic control while contributing to projects combining AI and robotics for intelligent and autonomous systems.

## ACADEMIC BACKGROUND

**Centrale Lyon – Engineering Degree**          2023 - TODAY
- **Master Electronique, Energie électrique, Automatique**
- **Specialisation in ML and vision model**
- **Embedded Electronics in Racing Cars**: Worked on the embedded electronics of a race car developed by EPSA (Centralian association).
- **VS Code Extension Development**: Developed a custom VS Code extension to enhance efficiency for Dassault Aviation's computational tools.

**Preparatory Classes (CPGE) – Lycée Champollion**          2021 - 2023
- MP*

## PROFESSIONNAL EXPERIENCE

**Probayes : Data Scientist**          MAY - AUGUST 2025
- Topic: Integration and optimization of deep learning models for document layout analysis, applied to DocParser, a PDF-to-Markdown conversion tool.
- Weekly formation on state of the art models

**Elistair**          JULY - AUGUST 2024
- Internship at a startup specializing in tethered drone development.

**Institut Fibonnaci**          2023 - TODAY
- Private Math Tutor – Lycée du Parc, CHampollion MPSI (Mathematics, Physics, and Engineering preparatory class).