

KYLIAN RICAUD

Engineering Student



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ABOUT ME

A curious and detail-oriented engineering student at ENSEEIHT (N7), passionate about new technologies. I envision a career in the aerospace and defense industries, specializing in missile systems. I enjoy tackling complex technical challenges and innovating to drive advancements in this field.

EXPERIENCE

Software Development Intern

May - June 2025

N7 Consulting, Toulouse

- Developed a full-stack web application to streamline internal document and project management, utilizing React for the frontend and Java for the backend.
- Integrated an automated document generation system using Google Apps Script to automatically create proposals, reports, and other key documents, significantly reducing administrative overhead.

Consultant

2025

N7 Consulting (Junior Enterprise of ENSEEIHT), Toulouse

- **Project YAS - Web Application Redesign:** Led the overhaul of a peer-to-peer parcel delivery platform. Developed both backend (Python, FastAPI) and frontend (Angular, TypeScript, HTML/CSS) components.
- **Project VOC - AI Home Automation Assistant:** Created an AI-powered smart home assistant connected to Zigbee sensors, providing real-time data analysis, configurable alerts, and a voice-controlled interface.
- **Project SUDFRO - AI-Powered Document Processing:** Engineered a solution to automate purchase order processing using AI, leveraging OCR and a Large Language Model (LLM) for data extraction and error correction.
- **Project ESA - Feasibility Study:** Conducted a preliminary feasibility study for a project with the European Space Agency (ESA). Details are currently under a Non-Disclosure Agreement.

Shelf Assistant

August 2024

Leclerc, Estancarbon

- Managed a high volume of products and organised the shelves in a department store.
- Developed volume management and planning skills.

Research Internship

April - June 2024

ISAE-SUPAERO, Toulouse

- Part of the Complex Systems Engineering Department (DISC), within the SysCo (Connected Systems) research group.
- Conducted a literature review on the security of satellite communications (SATCOM) in the context of 6G.
- Developed a taxonomy of security mechanisms and created an AI-based documentary search tool to analyze over 100 documents.

EDUCATION

Engineering Degree (M.Sc. in Engineering)	2024 - Present
Toulouse INP-ENSEEIH (N7) - 3EA Department, Toulouse	
Preparatory Courses for Engineering Schools	2022 - 2024
Toulouse INP, Toulouse	
French Baccalaureate - Scientific Track (With distinction)	2019 - 2022
Sainte-Thérèse High School	
Aeronautical Initiation Certificate (With Honors)	September 2020
Paul Mathou High School	

SKILLS

Technical Skills: Java, Python, React, Angular, FastAPI, JavaScript, TypeScript, HTML/CSS, Google Apps Script, LaTeX, Prompt Engineering, AI/LLM Integration, Data Science, Orcad Pspice, Vivado, MPLab, C++, Quartus, Advanced Design System.

Soft Skills: Creativity, Adaptability, Teamwork, Self-motivation, Problem-solving, Project Management.

LANGUAGES

French: Native | **English:** Professional Proficiency (B2) | **Spanish:** Elementary Proficiency (A2) | **Chinese:** Beginner