

# Léo RACLET

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Root-Me](#)

Saint-Etienne

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## PROFESSIONAL EXPERIENCE

### President of the Robotics Association Projet&Tech

2024 - 2025

- Task organization and team management
- Robot design and development with association members
- Training of first-year students in robotics and related tools/technologies
- Administrative management and partnership development

### Alternatives Energies

*Intern*

May 27, 2024 – August 2, 2024  
*La Rochelle, France*

- Developed an automated data collection, processing, and analysis system using Python
- Built a web interface using Django to interact with a PostgreSQL database
- Configured and customized several Grafana dashboards
- Set up a production environment with Debian on a server and deployed the project using Docker

### Hubert Curien Laboratory

*Research Intern*

April 17, 2023 – July 21, 2023  
*Saint-Etienne, France*

- Hardware implementation (VHDL/FPGA) of elementary math functions used in post-quantum cryptography
- Created a Python program to interact with the FPGA on the ChipWhisperer board
- Compared and verified multiple implementation strategies
- Performed side-channel attacks on the implemented designs

## EDUCATION

### Engineering Degree - Electronics and Telecommunications (in progress)

Saint-Etienne, France  
2023 – Present

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- Copper/fiber/antenna telecommunications – Modulation and coding
- Programmable logic circuits – Embedded systems

### DUT GEII and L2 Engineering Degree (Integrated Prep)

Saint-Etienne, France  
2021 – 2023

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## TECHNICAL SKILLS

**Technologies** : Python, C / C++, SQL, VHDL, HTML, CSS, JS, Bash

**Tools** : Grafana, Quartus, Altium, Github, Git, Docker, Django, PostgreSQL

**Systems** : STM32, Arduino, Linux, Windows, Raspberry Pi, NixOS

**Languages** : French, English (**TOEIC: 925**)

## PERSONAL PROJECTS

### Fractal Generator

C++, SFML, OpenGL, Git

[Source Code](#)

- A C / C++ program that generates and explores stylized fractals
- Used SFML and OpenGL to enable real-time zooming

## ACTIVITIES AND INTERESTS

### Sports and Travel

- **Sports:** Basketball (Player and Referee) – Table Tennis – Weightlifting
- **Travel:** China – Scotland – Italy – England – Ireland – French regions – La Réunion

### Cybersecurity and Cryptography

- Solved numerous challenges on the Root-Me cybersecurity platform, totaling 4,990 points - **1,277 / 250,000** -
- Participated in several CTFs, including HeroCTF 2023 and 404CTF 2024 - **Ranked 61st** -