



6 month technical internship  
Starting from February 2025

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PARIS. 75015





 **Lorenzo**  
**MARROCCHI**

ENGINEERING STUDENT

## PROFILE

I am a 22-year-old student at ECE Paris.Lyon engineering school. My studies focus on electronics and computer science, with a specialization in Embedded Systems. I have gained a solid foundation in electronics, both hardware and software, and how they work together. With a strong interest in robotics and aerospace, my studies also include hands-on projects in these areas.

## LANGUAGES

 Italian - Bilingual  
 English - B2 (TOEIC 855)

## EDUCATION

- |   |   |
|---|---|
| <b>2020 - Current</b><br>5 years          | <b>ECE Paris.Lyon<br/>ENGINEERING SCHOOL</b> <ul style="list-style-type: none"><li>• Embedded Systems specialization (M2)</li></ul>                                 |
| <b>March 2023 - July 2023</b><br>5 months | <b>University of Malaya<br/>INTERNATIONAL SEMESTER</b> <ul style="list-style-type: none"><li>• Kuala Lumpur, Malaysia</li></ul>                                     |
| <b>2017 - 2020</b><br>3 years             | <b>High School Jean-Jacques Rousseau</b> <ul style="list-style-type: none"><li>• Scientific high school diploma</li><li>• French - Italian double diploma</li></ul> |

## PROJECTS

### UNDERWATER DRONE

Prototype of a submersible vehicle for underwater experimentation and surveillance. Development planned for 2024-2025

### REAL TIME SIGN LANGUAGE TRANSLATION

Deep Learning project for a Sign Language interpreter, translating a video signal into corresponding letters. Using Python, Open CV and Tensorflow.

### DRONE

Design of a drone and its remote control. In the development phase. We develop on microcontroller and produce the PCB. Programmed with Arduino

### ROBOTICS COMPETITION

Competition (ECECUP) in which different groups of students confront each other. The robot must meet the requirements and carry out different tasks in order to win points. Programmed with Arduino and OpenCV.

### BATTLESHIP

Simplified version of the battleship board game. Made in C.

### AIR TRAFFIC CONTROL SIMULATION

Program to simulate air traffic control in 2D. Programmed in C++ and Allegro.

## MY PORTFOLIO

More on my website : [lorenzomarrocchi.com](https://lorenzomarrocchi.com)

## WORK EXPERIENCE

### PARROT

*Quality and Validation Engineer*

**may 2024 - august 2024** 4-month internship

- Developing test plans, designing cases, non-regression tests, field tests, reporting in TestRail, detecting anomalies and participating in reviews for continuous improvement.

### ECE PARIS.LYON

*Maker & Lab teaching assistant*

**sept 2023 - jan 2025** fixed-term contract

- Permanent assistant to professors at ECE Paris-Lyon (IT and electronics)
- Maker at the fablab. Provide on- site service and technical training on various machines.

### GENERATION (123G)

*Data Managment*





**dec 2022 - jan 2023** 5-weeks internship

- Development of a marketplace and online sales site.

## TECHNICAL SKILLS

<i>Embedded Systems</i>	<i>Software Development</i>
<b>Arduino</b>	<b>Python</b>
<b>Unix</b>	<b>C, C++</b>
<b>Assembly</b>	<b>Tensorflow, PyTorch</b>
<b>FPGA</b>	<b>Anaconda</b>
<b>Kicad</b>	<b>Html, CSS</b>
<b>Raspberry</b>	

## HOBBIES AND INTERESTS

-  Aerospace - Member of "Ece espace"
-  Photography - Member of "Jbtv"
-  Sport - Martial arts (Karaté & Boxing)
-  Video editing - Premiere & After Effects