

RUBLÉ Louis

Seeking a 6-month internship as a Robotics & Perception Software Engineer,
available worldwide starting March 2025

22 yo |  Paris, France |  louis.ruble@etu.utc.fr
 sioulruble |  Louis Ruble |  Personal Website

EDUCATION

Master of Engineering in Computer Science

2022-2025



Université de Technologie de Compiègne, France | Specilization in Intelligent Systems and Robotics

Exchange semester in Zaragoza, Spain | Master of Robotics, Graphics and Computer Vision

Relevant courses : Computer Vision, Autonomous Robots, Machine Learning, Algorithms and Data structures, OOP

2-year University diploma in Electrical Engineering and Industrial Computing

2020-2022



IUT de Cachan, France | Specilization in Real-Time Computing and Embedded Networks

Relevant courses : Signal Processing, Embedded Systems, Electronics, Control Systems

WORK EXPERIENCE

Human-Robot Interactions Engineering Intern



Enchanted Tools - Paris | Sep 2023 - Feb 2024

Gained in-depth knowledge of the **robotics stack**, including deployment and workflow management. Developed a platform using facial landmarks, ASR and Speech Source Localization (SSL) in Python to enhance **active speaker detection**. Programmed and integrated new natural **character behaviors** into the robot using Godot, C++.

Research Assistant in Image Processing



Laboratoire Signaux & Systèmes - Gif sur Yvette | May 2022 - Aug 2022

Imported an **image reconstruction algorithm** from MATLAB to Python to **improve performance**. Implemented wavelet transforms, gradient functions, and convolution operations in Python. Debugged and optimized the code translation process.

ACADEMIC PROJECTS

Emotion Recognition in VR Environment

Developed an **AR algorithm** simulating VR headsets on faces. Created an **emotion recognition** dataset and Implemented a **deep learning model** with TensorFlow for VR users.

Traffic Sign Recognition

Developed an effective road sign detection system using MSER and **HOG-SVM**, achieving 95% accuracy with near **real-time processing** on low-power hardware.

SKILLS

Langages : Python, C/C++, Matlab, Lisp, SQL | **Frameworks / Tools** : Github, ROS, Gazebo, Linux, Qt, PostgreSQL
Libraries : Numpy, Sklearn, OpenCV, Tensorflow/Pytorch, Matplotlib, Pandas | **µProcessors** : RaspPi, Mbed, Arduino

INTERESTS

Cinema / Scifi / Robotics

Chess: Competitive practice (~2150 Elo rating, top 15 FR U18)

Combat sports: Amateur Boxing and Sanda

LANGUAGES

French - Native

English - Technical language practice

German / Spanish - Beginner