Louis RUBLÉ

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

22 yo | 📍 Paris, France | ✉ louis.ruble@etu.utc.fr
 sioulruble | in 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

EXPERIENCE

Software Robotics Engineering Intern

Enchanted Tools - Paris | Sep 2023 - Feb 2024
Gained in-depth knowledge of the **robotics stack**, including deployment and workflow management. Developed a **multimodal** 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++.

Affective Computing Research Assistant

UTC - Compiègne | 2024 - 2025
SPRING 2024 - Developed an **AR algorithm** simulating VR headsets on faces. Created an **emotion recognition dataset** and implemented a **CNN model** with TensorFlow for VR users emotion recognition.
SPRING 2025 - Researching state-of-the-art methods for dimensional **emotion analysis**, implementing **Vision Transformer**-based regression model to predict **valence** and **arousal**. Plan to draft a research paper to present findings.

Image Processing Intern

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.

SKILLS

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

INTERESTS

Cinema / Scifi: Active member of the UTC cinema association
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