

Ousmane THIONGANE

Electronics Engineer specializing in Computer Vision, AI & Robotics,
looking for a full-time position.

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EDUCATION

Three-year Postgraduate Engineering Degree in Electronics and Computer Science

Sep 2022 – Dec 2025

ENSEA (Ecole Nationale Supérieure de l'Electronique et de ses Applications) | Cergy, France

- Major in Computer Science, Signal Processing, and Electronics. Specialization in Image Processing & Virtual Reality.
- Manager of the Robotics and Electronics club; participated in the French Robotics Cup. Revamped a knowledge-sharing wiki.
- Head of Communication of the Arts club; created the association's website and new visual identity.

Exchange Program in Artificial Intelligence & Robotics

Sep 2024 – Feb 2025

Sapienza University of Rome | Rome, Italy

- Focuses on Artificial Intelligence, Robotics, Computer Vision, Reinforcement Learning and Machine Learning.

SKILLS

Programming Languages: Python (Tensorflow, Keras, NumPy, Pandas, Scikit-learn, Gym, OpenCV), C/C++, Java, HTML/CSS.

Other Skills: Image Processing, Machine Learning, ROS 2, Docker, STM32 Cube IDE, Linux, Git/GitHub, PCB Design (KiCAD), VSCode, MATLAB for analysis and simulation of robotic systems, Photoshop, Autodesk Sketchbook.

PROJECTS

- **Chromapi | Jul 2024-present:** designed a four-legged robot capable of taking care a plant.
- **ArUco Map Locator | Dec 2024- Feb 2025:** Implemented a ROS 2 -based robot localization system using ArUco tags.
- **RoboBox | Dec 2024 – Feb 2025:** Developed a Python module for robotic applications (kinematics, motion).
- **Pyphobos | May 2024:** Programmed software for an autonomous robot competing in the French Robotics Cup.
- **Pymon | March 2024:** Developed a Python-based game inspired by Simon, featuring hand detection via camera and designed the PCB for the game box.
- **Hide&SeekBot | June 2023:** Collaborated in a team to build an autonomous robot for playing hide-and-seek.
- **TIPE | 2021-2022:** Created a statistical matrix through image processing to predict pollen movement.

EXPERIENCE

Robotics Engineer | Pollen Robotics | Bordeaux, France

Mar 2025 – Sep 2025

- Adaptation of teleoperation instructions for intrinsic and extrinsic robot constraints.

Systems Engineering Assistant/Physical Anti-Intrusion Solutions | IDEMIA | Osny, France

Apr 2024 – Aug 2024

- Defined and documented use scenarios for the product and identified potential threats.
- Created prototypes to test detection performance.

Product Testing & Qualification Engineering Intern | IDEMIA | Osny, France

Jun 2023 – Aug 2023

- Conducted functional qualification tests on biometric terminals. Prepared test reports based on tests plans.
- Processed fingerprint image data and analyzed data frames.

CERTIFICATIONS

First AID (PSC1) – 2023

Youth Leader Certification (BAFA) – 2021

LANGUAGES

French – Native

English – Proficient, B2 Level | (TOEIC 910/990)

Spanish – Working Knowledge, B1 Level

References available on request.