



FOUAD SMAOUI

ROBOTICS SOFTWARE ENGINEER

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[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

[Medium](#)

PROFILE

Robotics Software Engineer, delivering cutting-edge solutions to turn your challenges into lasting success

KEY SKILLS

- **Software :** C++ , Python, Rust, OpenCV, AWS, Docker, Git
- **Middleware :** ROS / ROS 2, Gazebo, Simulink, Linux
- **Hardware :** STM32, NVIDIA Jetson, Raspberry Pi

PROFESSIONAL EXPERIENCE

UPWORK

Robotics & AI Solutions Creator

Paris, France
2025

- Architected a novel autonomous **drone landing system** on moving vehicles, leveraging robust engineering and **Physical AI** to enable advanced **navigation** in complex **real-world conditions**.
- Launched a next-generation **AI-driven rental platform** with **semantic search**, enabling intent-based item discovery, reducing friction in the search process, and adapting to evolving user behavior.
- Created a **modular vision system** for an **industrial mobile manipulator robot**, integrating facial detection, virtual try-on, and landmark tracking to enhance **perception** in **robotic applications**.

ACCENTURE

Robotics Consultant

Paris, France
2023 – 2024

- Leading the design of a cutting-edge **pick & place robotic solution**, integrating a **collaborative robot**, its **digital twin**, and advanced **planning algorithms** to optimize operational efficiency.
- Delivering **high-impact demonstrations** of **Physical AI** applications in **Industry X.0**, advancing technological transformation and driving **strategic partnerships** for Accenture.

UAVIA X PARROT

Robotics Software Engineer

Vitry-Sur-Seine, France
2022

- Enhanced drone **autonomy** and **perception** by advancing **3D environment reconstruction** and **obstacle avoidance**, incorporating innovations from Parrot's technologies.
- Collaborated with research teams to integrate new **Physical AI** techniques, optimizing drone **performance** and **decision-making** in complex environments.

EDUCATION

ECOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS

Master Degree in Advanced Systems and Robotics

Paris, France
2022

UNIVERSITÉ DE BOURGOGNE

Master Degree in Electronics, Signal, and Image Processing

Dijon, France
2021