FOUAD SMAOUI

ROBOTICS SOFTWARE ENGINEER

Location: Paris (Mobility: France & International) | **Phone:** +33755665163 | **Email:** fouad.smaoui@outlook.com

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   Paris, France
Robotics Solutions Creator   **2025**

- Developed a **vision module** as part of an **industrial mobile manipulator robot**, enhancing perception and interaction capabilities.
- Designed an **intelligent search engine module** to optimize **decision-making** and user experience within the **robotic system**.
- Integrated **reinforcement learning** with vision and search engine modules to optimize system performance, seamlessly managed through a **ROS2 architecture** for efficient AI communication.

ACCENTURE   Paris, France
Robotics Consultant   **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   Vitry-Sur-Seine, France
Robotics Software Engineer   **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   Paris, France
Master Degree in Advanced Systems and Robotics   **2022**

UNIVERSITÉ DE BOURGOGNE   Dijon, France
Master Degree in Electronics, Signal, and Image Processing   **2021**