



**FOUAD SMAOUI**

## ROBOTICS SOFTWARE ENGINEER

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[Portfolio](#)

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[Medium](#)

### PROFILE

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

### KEY SKILLS

- **Software :** C++ , Python, 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

- Led 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.
- Delivered **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 navigation** 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

#### ARTS ET MÉTIERS, THE GRANDE ECOLE OF TECHNOLOGY

*Master Degree in Advanced Systems and Robotics*

Paris, France  
2022

#### UNIVERSITY OF BURGUNDY

*Master Degree in Electronics, Signal, and Image Processing*

Dijon, France  
2021