



**FOUAD SMAOUI**

## ROBOTICS SOFTWARE ENGINEER

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[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, Gazebo, Linux, NVIDIA Isaac, Simulink
- **Hardware :** STM32, NVIDIA Jetson, Raspberry Pi

### PROFESSIONAL EXPERIENCE

#### UPWORK

*Robotics Solutions Creator*

Paris, France  
2025

- Developed a **vision module** as part of an **industrial mobile manipulator** solution, 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

*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