Manar BOUAISS

✉ manarbouaiss@gmail.com 📞 +33 780730192 📍 Île-de-France, France 🔗 Manar Bouaiss ⦿ Portfolio

Master 2 student in Mechatronics, Machine Vision and Artificial Intelligence. I am looking for a **6-month internship in robotics and intelligent systems.**

Technical Skills

Programming:	C/C++, Python, MATLAB, Shell/Bash
Software Tools:	Git, Docker, Linux, AWS, ROS
Control Systems:	PLC Programming, PID Tuning, System Control and Stability
3D Modeling:	Blender, SolidWorks, AutoCAD, Fusion 360
Hardware Tools:	Nvidia Jetson Nano, FPGA, Raspberry Pi, Arduino, STM32
Vision & ML:	PyTorch, Scikit-learn, TensorFlow, YOLO, OpenCV

Soft Skills

- Teamwork, Communication and Collaboration
- Curiosity and Fast Learning
- Project Management and Organization

Education

Master 2: Mechatronics, Machine Vision and Artificial Intelligence   09/2025 – 09/2026
University of Evry Paris-Saclay, France

Master: Control and Automation Engineering   09/2021 – 06/2023
Institute of Electrical and Electronic Engineering (IGEE, ex INELEC), Algeria

Bachelor: Electrical and Electronic Engineering   09/2018 – 06/2021
Institute of Electrical and Electronic Engineering (IGEE, ex INELEC), Algeria

Professional Experience

Electronics Engineer – Industrial Technologies Research Center – Permanent Contract   02/2025 – 09/2025

- Sensor data analysis to optimize an electric vehicle prototype.
- Integration of embedded systems and hardware–software interface.

Software Engineer (IoT & AI) – Freelance   08/2023 – 03/2025

- Development of an AI assistant integrated into internal software to automate workflows.
- Design of custom solutions for real-time supervision and control of industrial and logistics systems.

Robotics R&D Intern – Center for the Development of Advanced Technologies   02/2023–07/2023

- Design and development of an autonomous surveillance robot (ROS, C++), integrating SLAM navigation, AI-based perception, and real-time autonomous decision-making.

Automation Internships – SIEMENS Digital Industries   08/2022 – 09/2022

- Hands-on experience with PLCs (S7-300, S7-400, S7-1200), HMI configuration and ladder programming.
- Work on industrial communication protocols and real-time control systems.

Projects

- Control of a robotic arm in simulation by reproducing the user's motion in real time.
- Robust control for UAVs (Sliding Mode Control)
- AI-based predictive maintenance for an industrial system.

Awards and Distinctions

- 1st Prize, Entrepreneurship Competition – 9th YEC, Algeria
- Bronze Honour, International Youth Math Challenge (IYMC)
- 4th Place, AI Hack – Computer Vision Hackathon
- WomenAI Hackathon by SIEMENS

Certification

- Robotics in Space
- Summer University in Mechanical Engineering
- Additive Manufacturing
- Python for Data Science and AI Development

Languages

- French
- English: C1
- German: A1