

Martin SOULERE

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PROFESSIONAL EXPERIENCE

Research Engineer

July 2023 - June 2024 (11 months)

COPPE UFRJ – Rio de Janeiro, Brazil

- Implemented torque and speed regulation system for terrestrial mobile robot.
- Integrated Kinova robotic arm, to implement inverse kinematics for more precise movements.

IT/Full-stack Developer

January 2022 - September 2022 (9 months)

Alltoo – Paris, France

- Developed and launched a website from scratch, including design, coding, deployment.
- Developed an Intelligent Process Automation (IPA) solution by integrating OCR technology with machine learning models.
- Guided and introduced clients to metaverse technologies.

Project Manager

January 2021 - May 2023 (2 years 5 months)

EFREI Research Lab – Paris, France

- Smart Assistive Glasses, for deficient people to detect crosswalk using Hough transform
- Created Rescue Drone, autonomous emergency defibrillator delivery drone.
- Implemented autonomous navigation on TurtleBot, enabling real-time obstacle avoidance and path optimization.
- Designed robotics prototype using Arduino for motor control and sensor integration.
- Developed a robotics platform using Raspberry Pi, integrating sensors, actuators, and Python-based control algorithms for autonomous operation.

EDUCATION

EFREI Paris - Paris, France

2017-2023 (6 years)

Master's degree (major: Robotics & Intelligent Systems)

Coursework: Signal Processing and Processors, Mechatronic, Embedded technologies, Image Processing and Computer vision, Automation Process and Real-time systems, Artificial intelligence.

ACTIVITIES

Restaurant Manager

2019-2023 (4 years)

- Team organization, customer attendance and satisfaction, stock management.

Student league soccer club president

2017-2023 (6 years)

- Strategical leader and vision, financial oversight, management and coaching.

SKILLS

Languages: Proficient in English, Portuguese, Spanish; Native French; Basic Korean

Technical: Programming languages: C, C++, Python, SQL, VHDL, Java, Ladder, SLC, FBD
Software: MATLAB, ModelSim, Simulink, ROS, VisuaDSP++, AutoCAD, Solidworks, UiPath, Blue Prism, IrFanView, Siemens TIA, RViz, LabView, CoppeliaSim, RoboGuide FANUC
Frameworks & Libraries: OpenCV, TensorFlow, NumPy, Matplotlib, Pandas, PyTorch, Keras, Gazebo, Caffe

Certification:

-ROS Certificate – The Construct, 2023
-Embedded AI – Nowledgeable, 2021
-Siemens PLC & HMI – Udemy, 2024

-Microsoft AZ-900 - EFREI Paris, 2021
-AI for Robotics - Udacity, current