

CONTACT

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PROFESSIONAL EXPERIENCE

Robotics and AI Engineer | February 2025 – Present

CEDIA

- Development of a half-body humanoid for patient care in hospitals.
- Development of Artificial Vision, LLM and trajectory planning algorithms for the execution of functionalities.
- Implementation of emotion-based conversational assistance in embedded devices.

Digital Factory Intern | August 2024 – January 2025

Unilever

- Development of Machine Learning algorithms for process prediction in product manufacturing.
- Planning of robotics and computer vision projects.
- Design and execution of applications to automate internal records.

Software Developer for UGV | February 2024 – May 2024

SUNY (South Korea – Incheon)

- Development of a tracking robot using only a 2D LIDAR sensor, with speed control for precise object tracking.
- Migration of a robot from ROS1 to ROS2, ensuring an efficient and smooth transition.
- Consulting on robotics issues, providing technical support and recommendations on robotic systems.

Robotics Software Developer | April 2023 – September 2024

RAMEL

- Design, coordination and development of robotics projects using ROS (ROS1 and ROS2).
- Development of a multirobot algorithm based on master-slave methodologies using ROS2 Humble.
- Implementation of a software architecture for ROV testing, aimed at the validation of underwater systems.

LANGUAGES

English – Advanced

Spanish – Native

SKILLS	Robot Operating System (ROS)	Computer Vision
	Nav2	OpenCV
	Movelt2	MediaPipe
	Gazebo	TensorFlow
	Multi Robot	Keras
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EDUCATION	Escuela Superior Politecnica del Litoral 2019–2024	
	Mechatronics Engineering	
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INVESTIGATION	Software Architecture and Simulation Interface for Autonomous Underwater Vehicles	
	Paper presented at IEEE	
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OFFICIAL AWARDS	Software Architecture and Simulation Interface for Autonomous Underwater Vehicles	
	Best paper – IEEE ETCM 2024 – Track Robotics & Automation	