

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

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**SKILLS**

Robot Operating System (ROS)	Computer Vision
Nav2	OpenCV
Movel2	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