RAÜL OJEDA GANDIA

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PROFESSIONAL SUMMARY

AI/Robotics Software Engineer specializing in deep learning, computer vision, and computational linguistics. Former Spanish National Cybersecurity Team member, now developing reinforcement learning systems for intelligent robotics.

TECHNICAL SKILLS

Programming Languages: Python, Bash Shell Scripting, C/C++
Machine Learning & AI: PyTorch, TensorFlow, Keras, Transformers, Hugging Face
Deep Learning: LLMs, Neural Networks, Computer Vision, Reinforcement Learning, Natural Language Processing
Robotics & Simulation: ROS/ROS2, Universal Robots, URDF, Isaac Sim, Isaac Lab, Unity Robotics
Development & Tools: Linux, OpenGL, GLSL, Docker, Git, MLOps
Languages: Spanish (Native), English (Professional), Catalan (Native)

EXPERIENCE

AI Research Intern   Feb 2024 – Jul 2024
VRAIN - Valencian Research Institute for Artificial Intelligence   *Valencia, Spain*
- Developed computer vision algorithms for robotic perception systems
- Created Unity-based digital twins and synthetic data generation pipelines with domain randomization techniques
- Designed and executed pick & place automation solutions integrating ROS and Unity Robotics

Full Stack Developer   Feb 2018 – Jul 2020
ESET Spain   *Ontinyent, Spain*
- Built cybersecurity-focused applications and tools, contributing to ESET Spain's security solutions

KEY PROJECTS

End-to-End Language-Guided RL for Legged Robots | *Master's Thesis*   2025
- Implementing RL framework with direct language-to-action mapping for locomotion task using Isaac Lab
- Achieving zero-shot generalization to novel language instructions through semantic understanding

Human-Robot Collaboration in Palletizing | *Bachelor's Thesis*   2024
- Designed human-centered virtual scenarios for collaborative robotic palletizing systems

EDUCATION

Master's Degree in Artificial Intelligence, Pattern Recognition, and Digital Imaging   Sep 2024 – Jun 2025
Polytechnic University of Valencia   *Valencia, Spain*

Bachelor's Degree in Computer Engineering   Sep 2020 – Jun 2024
Polytechnic University of Valencia   *Valencia, Spain*
- Final Grade: 8.4/10 - Honorable mentions in Programming and Discrete Mathematics
- 3 years in High Academic Performance group, 1 year specialization in Computation/AI

Higher Technician in Web Application Development   Sep 2018 – Jun 2020
IES l'Estació   *Ontinyent, Spain*

Technician in Microcomputer Systems and Networks   Sep 2016 – Jun 2018
IES l'Estació   *Ontinyent, Spain*

ACHIEVEMENTS & RECOGNITION

Spanish National Cybersecurity Team Member   2020 – 2023
- Selected among top 15 cybersecurity talents in Spain (ages 18-25) for European Cybersecurity Challenge