



Ricardo Peres

Electrical & Computer Engineer

Contact

Email

ricardosilvaperes91@gmail.com

Website / Socials

www.ricardosilvaperes.com

Education

2019

PhD - Electrical & Computer Engineering

NOVA University of Lisbon

2015

MSc - Electrical & Computer Engineering

NOVA University of Lisbon

Expertise

- Python
- Machine Learning
- Computer Vision
- Artificial Intelligence
- Robotics

Soft Skills

- Project Management
- Team Leadership
- Strategic Thinking
- Research

Language

English

Portuguese (native)

Experienced Electrical & Computer Engineer with 10+ years at the intersection of AI, robotics, and data science. Currently, I'm the Head of Engineering at Geosense, a senior researcher at UNINOVA, and an Assistant Professor at NOVA University of Lisbon, having taught over 1,000 students. I've developed and deployed AI & Robotics solutions for companies like Siemens, Volkswagen, and GKN Aerospace, specializing in automated, human-centric AI using Python, ROS / ROS2, Docker, OpenCV, Pandas, Numpy, Pytorch, Tensorflow and Scikit-Learn.

Experience

2024 - Present

Geosense | Coimbra (Remote), Portugal

Head of Engineering

I lead the strategic development and implementation of AI-powered solutions for UAV and geospatial data processing. The role involves overseeing all aspects of software engineering, from initial concept to final deployment, to create robust, scalable tools for UAV imagery analysis. I guide a cross-functional team, manage project timelines, and ensure the technical infrastructure aligns with business objectives. My work focuses on leveraging cutting-edge ML techniques, computer vision and data science best practices to provide actionable insights and add value for clients in diverse industries.

2023 - 2024

Geosense | Coimbra (Remote), Portugal

Software Engineer (Contractor)

Developed an AI-driven pipeline for automating limestone block localization in quarries using UAV imagery. Leveraged computer vision and YOLO models to detect and identify blocks, integrating OCR for precise text recognition. Collaborated with stakeholders to design a scalable solution that streamlines quarry management by providing actionable insights from aerial data, improving operational efficiency and resource tracking.

2020 - Present

NOVA School of Science and Technology | Caparica, Portugal

Assistant Professor

Teach and mentor students in mobile robotics and information systems, focusing on practical applications of AI, machine learning, and automation. Develop course materials and lead research projects, contributing to the academic and professional growth of over 1,000 students.

2014 - Present

UNINOVA - CTS | Caparica, Portugal

Research Engineer

I lead projects focused on human-centric AI, developing automated solutions that combine machine learning, robotics and distributed systems for real-world applications. I collaborate across multidisciplinary teams to drive innovation in EU and National funding programmes including FP7, H2020, Horizon Europe, Portugal 2020 and Portugal 2030, guiding industrial stakeholders towards a successful digital transition in sectors such as manufacturing, agri-food and healthcare. I also authored 30+ scientific publications.