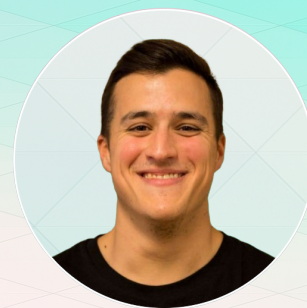


FRANCISCO LOURENÇO

Freelance 3D Data Specialist | ML & CV Engineer

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🌐 <https://github.com/francisco-lourengo-2> id <https://orcid.org/0000-0001-7081-5641>
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WORK EXPERIENCE

Machine Learning Engineer

Anything World

📅 Jan 2023 – Apr 2025

📍 London, England

- Delivered 3 production ML systems for the “Animate Anything” tool: 3D shape classification, alignment, and part segmentation.
- Solutions deployed in production and integrated into the Anything World API.
- Also contributed to smaller ML and software development tasks.

3D Computer Vision Engineer

coatingAI

📅 Sep 2021 – Jan 2023

📍 Barcelona, Spain

- Joined as the sole CV engineer; built a multi-camera RGB-D 3D scanning system from scratch for powder coating automation.
- Led both software pipeline and physical prototyping.

Junior Researcher

Institute of Systems and Robotics

📅 Jan 2021 – Jun 2021

📍 Coimbra, Portugal

- Developed vision-based anomaly detection for glass bottle production.

EDUCATION

MSc in Electrical and Computer Engineering

University of Coimbra

📅 2018 – 2021

📍 Portugal

- Specialized in Computer Vision and Machine Learning.
- Thesis: *6DoF Object Pose Estimation from RGB-D Images using ML* — graded 19/20.

MSc Exchange Program

Aalto University

📅 2018 – 2019

📍 Espoo, Finland

- Coursework focused on AI and Robotics.

BSc in Electrical and Computer Engineering

University of Coimbra

📅 2015 – 2018

📍 Portugal

PUBLICATIONS

Intel RealSense SR305, D415 and L515: Experimental Evaluation and Comparison of Depth Estimation

VISIGRAPP 2021

Evaluation of the Accuracy of Pose Estimation Based on Relative Pose

RECPAD 2021

OTHER ACTIVITIES



Winner of Innovation Award

F1 in Schools 2012



3rd Fastest Car

F1 in Schools 2013



Winner of the Best Interview Award

National Robotics Festival 2014



Competition Rowing

Since 2007 until 2015, with participation in several National and International Competitions

TECHNICAL SKILLS

Python C++ PyTorch TensorFlow
ROS MatLab SQL CAD Design
OpenCV Open3D 3D Reconstruction
Computer Vision Point Clouds

SOFT SKILLS

Team Work: ● ● ● ● ● ● ● ● ● ●
Organization: ● ● ● ● ● ● ● ● ● ●
Leadership: ● ● ● ● ● ● ● ● ● ●
Communication: ● ● ● ● ● ● ● ● ● ●

LANGUAGES

Portuguese native

English C2

Spanish C2

FIELDS OF INTEREST

Machine Learning Computer Vision
Point Clouds Data Science Mathematics
Coding Health Care Robotics
Automation and Control
Self Driving Vehicles 3D Animation

“A real team-player, who has the ability to work unsupervised and drive strategic projects.”