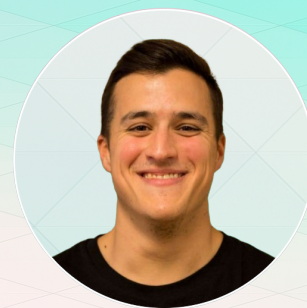# FRANCISCO LOURENÇO

**Freelance 3D Data Specialist | ML & CV Engineer**

@ francisco.rlourenco@gmail.com  📞 +351 964826072  🌐 www.francisco-lourenco.com

in https://linkedin.com/in/franciscorlourenco  ⌗ https://github.com/francisco-lourenco-2

ⓘ https://orcid.org/0000-0001-7081-5641  📅 Date of Birth: 23-04-1996

## 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."*