



André Oliveira

Lisbon, Portugal

barrancos97@gmail.com

CienciaVitae

WORK

Researcher

IT @ Lisbon, Portugal — December 2021 to today

Carrying research on exploring different contactless electromagnetic methods for layer-wise testing of powder bed fusion metal additive manufacturing.

Teaching Assistant

IST @ Lisbon, Portugal — September 2021 to December 2021

Helped master's students during the laboratory classes for the Electronic Integrated Systems (SEI) and the Programmable Electronic Systems (SEP) courses.

Trainee

Siemens @ Amadora, Portugal — July 2018 to August 2019

Developed AI program to optimize bus charging costs and scheduling. Project management.

EDUCATION

MSc Electronic Engineering

IST @ Lisbon, Portugal — 2020 to 2021

Thesis A. Oliveira, L. Rosado, "Eddy Current Array Probe for Metal Additive Manufacturing Imaging".

BSc Electronic Engineering

IST @ Lisbon, Portugal — 2016 to 2020

PUBLICATIONS

- A. Barrancos, A. Silvestre, L. Rosado, "Designing an Eddy Current Testing Structural Health Monitoring Instrument", 2021 Telecoms Conference (ConfTELE), 2021.
- A. Santos, A. Barrancos, L. Rosado, F. Janeiro "Low-Cost Multi-Frequency Eddy Current Coating Thickness Measurement System", 2022 International Young Engineers Forum (YEF-ECE), 2022.

SKILLS

C/C++

Used for programming microcontrollers such as MSP430s and PIC24s.

Python

Developed AI program to optimize bus charging costs and scheduling.

Labview

Used for controlling and writing/reading data from the peripherals (video).

Verilog

Developed testing circuits.

Altium

Designed Array Probe based on Eddy Current Testing.

INTERESTS

Scouts, Camping, Nature, Tennis, Movies and Music.