



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.

Matlab

Process and display data.

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.

ANSYS Electronics

Electromagnetic and capacitive sensors simulation.

INTERESTS

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