

### Education

- 2012–2015 **Masters in Electrical and Computer Engineering**, *Instituto Superior Técnico*, University of Lisbon, Specialization in Computers and Control.
- 2009–2015 **Masters in Electrical Engineering**, *Portuguese Air Force Academy*.

### Masters Thesis

- Title *Efficient Evidence Accumulation Clustering for large datasets/big data*
- Supervisors Professor Ana Fred & Dr. Helena Aidos
- Description This thesis focused on exploring the feasibility of applying Evidence Accumulation Clustering to large datasets. I explored different areas from quantum clustering techniques to GPU based algorithms. The result was the development of solution that is several times faster and more memory efficient than the original, using different strategies.

### Experience

#### Vocational

- 2016 **Software Developer**, PORTUGUESE AIR FORCE, Lisbon.
- Maintenance and development of UAV onboard systems (ROS, C++).
  - Full-stack development of ground systems (Python + HTML/Javascript/CSS).
- 2014 **Summer Intern**, PORTUGUESE AIR FORCE, Lisbon.
- Detailed achievements:
- Brief study of Electronic Warfare.
  - Development of a Java application allowing for parameterized search over a set of data received by XML file.
  - Development of a configurable Java application that converts data from different formats to XML.
- 2013 **Summer Intern**, PORTUGUESE AIR FORCE, Lisbon.
- Detailed achievements:
- Study of internal security regulations within the Portuguese Air Force and technical solutions for alarm systems.
  - Development of a project for an alarm system for a section of the perimeter of a military base.

#### Miscellaneous

- 2012 **Summer Intern**, PORTUGUESE AIR FORCE, Lisbon.
- Brief study of technical theory in the areas of communications, networks, servers, security and electronic warfare.

## Projects

2012 **Android App.**

- Development of Android application within the context of a UAV project (the PITVANT).
- Application used inbuilt GPS module of modern smartphones and sent data to remote server.

## Awards

2011/12 OGMA, Portuguese Aeronautic Industry Award – Best Electrical Engineering student.

2014/15 IST, Board of Academic Merit

2015/16 IST, Academic Excellence Diploma

## Technical skills

Comfortable PYTHON, C, ROS

Worked with SQL, C++, JAVA, MATLAB

Other tools Linux,  $\text{\LaTeX}$

Hardware VHDL, FPGA, Arduino

## Languages

Portuguese **Mother tongue**

English **Fluent**

Swedish **Basic**

## Personal interests

- Books

- Running

- Traveling

- Swimming