Diogo Silva

Curriculum Vitae

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 feasability of applying Evidence Accumulation Clustering to large datasets. I explored different areas from quantum clustering techniques to GPU based alrogithms. The result was the development of solution that is several times faster and more memory efficient than the origina, using different strategies.

Experience

Vocational

2016 **Software Developer**, Portuguese Air Force, Lisbon.
Detailed achievements:B
- Mainteneance and development of UAV onboard systems (ROS, C++).
- Back-end development (Python).

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**, Portugese 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

2012   OGMA, Portuguese Aeronautic Industry Award – Best Electrical Engineering student.

Technical skills

Confortable	python, Java,C, Matlab
Worked with	SQL, C++
Other tools	Linux, ROS, LaTeX, Emacs
Hardware	VHDL, FPGA, Arduino, PIC

Languages

Portuguese	**Mothertongue**
English	**Fluent**
Swedish	**Basic**

Personal interests

- Books
- Running
- Traveling
- Swimming