

# Europass Curriculum Vitae



## Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Driver's License

**Dias, Luis Filipe**

Campolide, Lisboa - Portugal

927856393/213886350

luisfiliperdias@gmail.com

Portuguese

30/03/1990

B Category

## Work Experience

Dates

Occupation or position held

Main activities and responsibilities:

January 2014 - present

**Embedded Systems Engineer**

- Development of embedded software [C] for different platforms/hardware;
- Work on different levels of the SW stack (from device-drivers to application);
- Comprehension of the underlying Buildsystems (cmake, kbuild, ...);
- Debugging of SW + HW problems;
- Comprehension/enforcement of technical specifications (DVB, HDMI, MPEG...);

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities:

**DTV Research**, Lisbon - Portugal

Embedded development in the field of Digital TV.

July 2012 - December 2014

**Hardware Engineer**

- Member of a multidisciplinary team, responsible for firmware integration;
- Execution and analysis of HW validation tests (surge, EMC, temperature...);
- Handling of testing, measurement and characterization equipment for optical and high-frequency electrical interfaces;
- Development of lab automation (remote control of traffic generators, oscilloscopes, equipment PCU's,...) using Python;
- Comprehension/enforcement of technical specifications (ANSI, ITU-T, IEEE...);

Name and address of employer  
Type of business or sector

**Nokia Siemens Networks/Coriant GmbH & Co**, Lisbon - Portugal  
Optical data networking and telecommunications equipment.

## Education and training

Dates  
Title of qualification awarded

September 2007 – 2012  
Master in **Electronics and Telecommunications**. Level of **15/20** acquired.

Master Thesis

Study of **Electromagnetic Energy Harvesting Systems** efficiency.  
Besides a theoretical study, various prototypes were designed, built and analysed.  
It was held at the Institute of Telecommunications of Aveiro. Level of **18/20** acquired.

Main subjects/Occupational  
skills covered

Main skills acquired during course:

- Installation and maintenance of telecommunications networks;
- Development and supervision of electronic systems of low and medium power, for low frequencies and microwave/radio-frequencies;
- Development and optimization of code in multiple programming languages;
- Maintenance, implementation and tuning of control systems;
- Study and development of products and services for telecommunications, electronics, informatics and control systems.

Name of organization  
Workshops/Contests

University of Aveiro, Portugal

Participation in **COST** Training School: "**Energy-aware RF Circuits and Systems Design**" event, in the University of Bologna - Italy, in 2012;  
**Winning team** of **24h EBEC - Case Study** competition, sponsored by BOSCH, at Aveiro, and participation in the finals, at Lisbon's Nova University, in 2012;  
**2nd place** at **Micro-Mouse** robotics competition in 2011, and participation the edition of 2012, at University of Aveiro;

## Personal skills and competences

Mother tongue(s)  
Other language(s)

**Portuguese**

English, Spanish, German

*Self-assessment  
European level<sup>(\*)</sup>*

**English**  
**Spanish**  
**German**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
Excellent	Excellent	Excellent	Very Good	Excellent
Excellent	Good	Good	Good	Sufficient
Sufficient	Good	Sufficient	Sufficient	Sufficient

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Social skills and  
competences

Ability to work in teams as well as good communication social skills, acquired with:

- the Erasmus experience;
- a wide range of academic/extra-curricular group projects;
- the work developed as a member of a Software Integration team at NSN/Coriant;
- the work performed as a member of different teams in the field of Digital TV;
- business trips to a foreign department of DTV Research, in France;

## Organisational skills and competences

Leadership skills, acquired as team representative in various contests and projects;  
Good planning ability, deadline meeting and priorities establishment obtained through careful and timely delivery of all proposed works during the course/work;

## Technical skills and competences

Some of the projects developed (academic + hobbies):

- Development of **Android Apps**, from 2012 to present;
- Creation of an OS-agnostic **Work-Hours Log Application**, using QT, in 2015;
- Development of a **Wireless Temperature Sensor**, presented on a simple web page, using a Raspberry Pi, a PIC16, a couple of RF modules, in 2014;
- Creation of a **Menu Service for Restaurants**, with a web-based interface and an Android App for customers, in 2013;
- Study, development and construction of various **Electromagnetic Energy Harvesting Systems** for FM broadcasters, in 2012;
- Complete construction of a **Robot** for participation in a robotics contest (Micro-Mouse), in partnership with a colleague, in 2012;
- Development of a **Remotely Operated Vehicle** with RF communication modules and a central processing unit (pic32), in 2011
- Project and conception of a **Voltage Regulator** with Matlab GUI interface communication via UART and a Pic16, in 2011

## Computer skills and competences

### Software :

- *Tools*: Matlab, Spice, Microwave Office (AWR), Mentor, Advanced Design System (ADS), Proteus, HP Quality Center, Android Studio, QT Creator, Silicon Labs tools.
- *Languages*: C, C#, Perl, Python, Assembly, Matlab, Latex, Java, HTML5.

### Hardware :

- *Electrical Equipments*: Analog/Digital/Phosphor Oscilloscope, Time-Domain-Reflectometer (TDR), Communications Signal Analyser (CSA), Microwave Generator, Spectrum Analyser, Bit Error Rate Tester (BERT), Vector Network Analyser (VNA).
- *Optical Equipments*: Optical Signal Generator/Analyser, Optical Spectrum Analyser, Optical Time-Domain-Reflectometer (OTDR), Variable Attenuator, Power Meter.

## Additional Information

### Abroad Studies

Participation in the Erasmus program in the University Carlos III of Madrid, Spain, on the 1st semester of the 5th year.

Acquisition of advanced competences in Radio-frequency.

This experience increased the ability to adapt to new/unknown environments, and increased the awareness on the different cultures and traditions.

### Personal Interests

Travelling, cinema, squash, table tennis, mountain biking, technology, learning new languages and competences.