Europass Curriculum Vitae
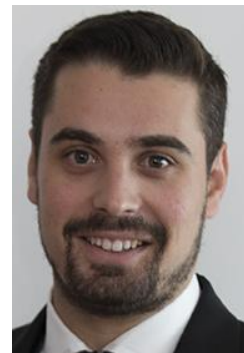
Personal information

Surname(s) / First name(s)	**Dias, Luis Filipe**
Address(es)	Campolide, Lisboa - Portugal
Telephone(s)	927856393/213886350
Email(s)	luisfiliperdias@gmail.com
Nationality(-ies)	Portuguese
Date of birth	30/03/1990
Driver's License	B Category

Work Experience

Dates	January 2014 - present
Occupation or position held	**Embedded Software Engineer**
Main activities and responsibilities:	

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

Name and address of employer	**Novabase**/**DTV Research**, Lisbon - Portugal
Type of business or sector	Embedded development in the field of Digital TV.
Dates	July 2012 - December 2014
Occupation or position held	**Hardware Engineer**

Main activities and responsibilities:	
	– 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	**Nokia Siemens Networks**/**Coriant GmbH & Co**, Lisbon - Portugal
Type of business or sector	Optical data networking and telecommunications equipment.

Education and training

Dates	January – September 2016
Title of qualification awarded	**Lean Six Sigma Black Belt** certification. Ongoing.
Main subject	Specialization course that focuses on improving the efficiency and effectiveness of the processes in the organizations, based on the Lean and the Six Sigma framework
Name of organization	**Instituto Superior Técnico**, Portugal

Dates	September 2007 – 2012
Title of qualification awarded	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:

- Telecommunications (Communication Systems and Radio Frequency);
- Hardware design (analog and digital);
- Software development (e.g: C, Java, Assembly, Matlab);
- Study of control systems (classical and modern);

Name of organization Workshops/Contests	**Universidade de Aveiro**, Portugal

Energy-aware RF Circuits and Systems Design event, Univ. of Bologna [2012];
Winning team of **24h EBEC - Case Study**, sponsored by BOSCH, at Aveiro [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)	**Portuguese**
Other language(s)	English, Spanish, German

Self-assessment *European level*[*]	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Excellent	Excellent	Excellent	Very Good	Excellent

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Spanish	Excellent	Good	Good	Good	Sufficient
German	Sufficient	Good	Sufficient	Sufficient	Sufficient

(*) *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

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;

Computer skills and competences

Software :

– *Tools:* Matlab, Spice, Microwave Office (AWR), Mentor, Advanced Design System (ADS), Proteus, HP Quality Center, Android Studio, QT, Silicon Labs tools.

– *Languages:* C, C++, Perl, Python, Assembly, Matlab, Latex, Java, PHP, HTML5.

Hardware :

– *Electrical Equipments:* Analog/Digital Osciloscope, 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), Power Meter.

Additional Information

Abroad Studies

Erasmus program in the University Carlos III of Madrid, 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.

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