Ricardo Morgado

Curriculum Vitæ

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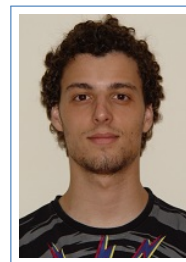
Education

2005–2008	**Highscool**, *Colégio Nossa Senhora do Rosário*, Porto.
2012	**International Exchange Program**, *Escola Politécnica da Universidade de São Paulo (USP)*, São Paulo, Brazil. One semester exchange program.
2008–Current	***Mestrado Integrado em Engenharia Electrotécnica e de Computadores***, *Faculdade de Engenharia da Universidade do Porto (FEUP)*. Branch of study: Telecommunications. Major: Multimedia. Grade (Expected): 14

Experience

2011–Current	**Investigator**, *Instituto de Telecomunicações	Porto*.
2011	[MiscCar]: Minor participation, created data processing automated script [C];
2012–2013	[VOCE]: Adding new features and debugging of an Android application [Java];
2013–Current	[Smart2M Gateway and Application]: Ongoing project which will be the focus of the Master Thesis. Project involves creation of an Android application from scratch that uses the ETSI M2M standard over several protocols (MQTT, CoAP) to communicate with *PT Inovação*'s Broker. An application is also being developed for proof-of-concept, as well as protocol comparison tests.

Known Languages

Mother Tongue — Portuguese;

Language	Understanding	Speaking	Writing
English	C1: Proficient	C1: Proficient	C1: Proficient
Spanish	B1: Independent	B1: Independent	A1: Basic

(Common European Framework of Reference for Languages)

Acquired skills

Computer Languages

C	Good knowledge of capabilities/weaknesses;	PHP & SQL	Fair knowledge applied to practical problems;

C++	Adequate knowledge. Helpful in understanding object-oriented programming;
Matlab	Knowledge used in signal processing (image + audio);

Java	Extensive knowledge: Used to normal Java libraries and Android SDK;
Assembly	Basic Knowledge [80C51];

Project Development

Development Models	Wide contact with software development models such as
Modelation Tools	Good knowledge of Unified Modeling Language (UML 2.0) and fair knowledge of Business Process Modeling Notation (BPMN 2.0) provide the needed tools to develop a project on an idea or a client's specifications. Acquainted with project management tools for task priorization and assignment (such as Redmine or Microsoft Project).
Team Work	Familiar with team work tools, such as SVN and GIT, to integrate several people's contribution to projects. Extensive SVN experience and punctual GIT use.

Extracurricular Activities - Music

Tuna	Tunas are a Portuguese traditional group of students that join for their love of music. As a member of *Tuna de Engenharia da Universidade do Porto (TEUP)*, enhanced coordination was acquired by learning the skills for playing the mandolin and singing at the same time. As a member, participated in the organization of several events: ○ *PortusCalle 10, 11 ,12 & 13*: Music shows of Tunas hosted by TEUP on the Oporto Coliseum (sold out on the last 3 years). ○ 2nd, 3rd & 4th *Encontro Solidário de Tunas*, hosted by TEUP on FEUP's main Auditorium.
Cultural Interaction	With the intentions of meeting new cultures and spreading our own, participated of 2 Tours over Europe, visiting Spain, France, Luxembourg, Netherlands, Belgium and the United Kingdom, over two years (2012 & 2013).

Extracurricular Activities - Community Help

Volunteer Work
One year of volunteer work while in high-school on the nearby neighbourhood of Ramalde, helping kids with their homework and tasks.

TEUP Events
Every edition of the above mentioned Tuna hosted events, had different charity beneficiaries:

2009 [*ATACA*]: This is an association that aims to help developing countries based on fund-raising, volunteer work and distance tutor programs. This last program is carried out in Mozambique and aims to help needing children by commiting to finance their survival expenses (food, clothes, health and education).

2010 [*Crescer-Ser*]: Institution that helps children victims of abuse and/or orphans with 7 temporary centers for children below 18 years old;

2011 [*Casa do Caminho*]: Founded by a groups of friends that used to do volunteer work, it aims to help children up to 3 years old victims of abuse, neglect or some form of violation. They stay in the house until their adoption, or reinstatement into a rebalanced household;

2012 & 2013 [*Vencer Autismo*]: This Association is focused on helping parents and autistic children by providing the information, the means and the therapeutic and psychological support to everyone that direct or indirectly socializes with people bearer of this so called "epidemic" of the XXI Century.;

On these events, if there was any food leftover we always managed to give it away to needy people, usually to a nearby Priest that could easily join the hungry for a better meal.

Extracurricular Activities - Sports

Solo Sports
Growing up there were short periods of time practicing Swimming or Tennis (not at the same time).

Team Sports
There was always preference for team sports, because of the helpful team environment. Roller hockey (on *Infante Sagres*) was the first pick and it worked for a couple of years (1998–2000). After changing schools for 5th grade, Football gained expression and *Escola de Futebol Domingos e Rui Barros* in *Leça da Palmeira* was the pick. Rugby was the choice at a later age of 15, joining CLIP (*Colégio Luso Internacional do Porto*) Rugby School with a few friends.