

# Jorge Azevedo

## Electronics Engineer



**Availability:** August 2013 onwards

**Looking for:** Embedded Systems Development  
Real-Time Linux

*In a nutshell* · Recent university graduate, passionate about technology, looking for a challenge and an opportunity to learn a new language. Specialties include software development and real-time Linux.

## Personal Information

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FULL NAME	Jorge Manuel Coelho Amado de Azevedo
ADDRESS	Rua Bartolomeu Dias, 210, 4450-587 Matosinhos, Portugal
DATE OF BIRTH	15th October 1987
GENDER	Male
NATIONALITY	Portuguese
CONTACTS	<ul style="list-style-type: none"><li>· Telephone (+351) 936270876</li><li>· E-mail <a href="mailto:jorge.amado.azevedo@gmail.com">jorge.amado.azevedo@gmail.com</a></li><li>· LinkedIn <a href="https://pt.linkedin.com/in/jaazevedo">pt.linkedin.com/in/jaazevedo</a></li><li>· Xing Jorge Azevedo</li></ul>

## Experience

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UnlockYourBrain	Berlin, Germany
AUG 2013 - JAN 2014	<b>Software Engineering Intern</b>
DESCRIPTION	<p>Internship at UnlockYourBrain, an e-learning startup focused on the development of an Android app. Key projects were:</p> <ul style="list-style-type: none"><li>· Continuous integration of the Android app. The build was automated using gradle and TeamCity was chosen as the server.</li><li>· Company-wide implementation of Scrum. As Scrum Master I oversaw the adoption of the framework, scheduled and hosted the various events, etc.</li><li>· Implementation of database manipulation algorithms using Node.js. These were mostly test-driven using mocha and required the usage of debug/profiling tools. An npm package was also published.</li></ul>
UNISOL	Universidade de Aveiro, Portugal
MAR 2012 - JUL 2013	<b>Researcher</b>
DESCRIPTION	<p>Research grant for UNISOL, a European consortium purposed with the construction of a domestic solar heating system. Key projects were:</p> <ul style="list-style-type: none"><li>· Prototyping an embedded control system based on a PIC32 microcontroller and several sensors and actuators.</li><li>· Development of a system simulation model using MATLAB/Simulink.</li><li>· Deployment and administration of an Ubuntu server running an OpenStack cloud computing environment and a MATLAB computation cluster.</li></ul>
Xenomai Lab	Universidade de Aveiro, Portugal

JAN 2011 - JUL 2013

## Software Engineer

DESCRIPTION

Main developer for the Xenomai Lab real-time platform. Experience in:

- Distributed version control using git.
- Graphical User Interface development using Qt/C++.
- The Xenomai real-time framework and its real-time semantics in C.
- Licensing, packaging and distribution of a free software project.

JAN 2012 - PRESENT

## Master's Thesis Collaborator

DESCRIPTION

Technical coordinator for several student master's thesis

- Sept 2012 - Present *Plataforma de ensino baseada em Xenomai Lab*.
- Jan 2012 - Dez 2012 *Controlador Adaptativo baseado em Xenomai*.

## Publications

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SEPT 2012

Xenomai Lab - A Platform for Digital Real-Time Control ([link](#))

IN

J. Amado-Azevedo, P. Pedreiras and A. Mota. *Xenomai Lab - A Platform for Digital Real-time Control*. In INForum Proceedings, 2012.

## Education

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SEPT 2005 – JAN 2012

### M.Sc. Electronics and Telecommunications Engineering

INSTITUTION

Universidade de Aveiro

Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

THESIS

Xenomai Lab - A Platform For Digital Real-Time Control ([link](#))

DESCRIPTION

5 year degree (Bachelor and Master included).  
Thesis graded 19/20 after public defense.

SEPT 2008 – JUL 2009

### Erasmus Exchange Program

INSTITUTION

TU/e Technische Universiteit Eindhoven

Den Dolech 2, 5612 AZ Eindhoven, Netherlands

DESCRIPTION

One year spent abroad under the Erasmus Exchange Program.

## Languages

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PORTUGUESE

Native speaker.

ENGLISH

Fluent speaker. Five years of education in the British Council achieving level B in the Certificate of Advanced English (2004).

SPANISH

Basic understanding in both written and spoken form.

## Skills

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SOFTWARE

- A thorough understanding of the C programming language and Real-Time OS semantics, based on Linux variants such as Xenomai and RTAI.
- Working knowledge of C++/Qt and modern development concepts such as Test Driven Development, Continuous Integration (Jenkins), cloud computing (OpenStack) and version control (git).

HARDWARE

- A working knowledge of PIC microcontrollers, basic analog filter design and PCB prototyping using EAGLE.

SOCIAL	<ul style="list-style-type: none"> <li>· Experience in multicultural environments.</li> <li>· Open minded and down to earth team player.</li> </ul>
ORGANIZATIONAL	<ul style="list-style-type: none"> <li>· Experienced in working in a multidisciplinary team.</li> <li>· Planning and scheduling of team/individual projects using Gantt charts.</li> </ul>
OTHERS	<ul style="list-style-type: none"> <li>· Driving License Category B-1</li> </ul>