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

FULL NAME	Jorge Manuel Coelho Amado de Azevedo
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DATE OF BIRTH	15th October 1987
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NATIONALITY	Portuguese
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Experience

UnlockYourBrain   Berlin, Germany

AUG 2013 - JAN 2014	**Software Engineering Intern**
DESCRIPTION	Internship at UnlockYourBrain, an e-learning startup focused on the development of an Android app. Key projects were:

· Continuous integration of the Android app. The build was automated using gradle and TeamCity was chosen as the server.
· Company-wide implementation of Scrum. As Scrum Master I oversaw the adoption of the framework, scheduled and hosted the various events, etc.
· 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.

UNISOL   Universidade de Aveiro, Portugal

MAR 2012 - JUL 2013	**Researcher**
DESCRIPTION	Research grant for UNISOL, a European consortium purposed with the construction of a domestic solar heating system. Key projects were:

· Prototyping an embedded control system based on a PIC32 microcontroller and tens of sensors and actuators.
· Development of a system simulation model using MATLAB/Simulink.
· Deployment and administration of an Ubuntu server running an OpenStack cloud computing environment and a MATLAB computation cluster.

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 two student master's thesis. · Sept 2012 - Present *Plataforma de ensino baseada em Xenomai Lab*. · Jan 2012 - Dez 2012 *Controlador Adaptativo baseado em Xenomai*.

Publications

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

Sept 2005 – Jan 2012	**M.Sc. Electronics and Telecommunications Engineering**
Institution	**University of Aveiro, Portugal**
Thesis	Xenomai Lab - A Platform For Digital Real-Time Control (link)
Description	5 year program including Bachelor's and Master's. Thesis graded 19/20.

Sept 2008 – Jul 2009	**Erasmus Exchange Program**
Institution	**TU\e Technische Universiteit Eindhoven, Netherlands**
Description	One year spent abroad under the Erasmus Exchange Program.

Languages

Portuguese	Native speaker.
English	Fluent speaker. Six 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

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	· Experience in multicultural environments.
	· Open minded and down to earth team player.
ORGANIZATIONAL	· Experienced in working in a multidisciplinary team.
	· Planning and scheduling of team/individual projects using Gantt charts.
OTHERS	· Driving License Category B-1