

Jorge Azevedo

Electronics Engineer



Availability: July 2013 onwards

Looking for: Real-Time Linux

Embedded Systems Development

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

Personal Information

FULL NAME	Jorge Manuel Coelho Amado de Azevedo
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DATE OF BIRTH	15th October 1987
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XING	Jorge Azevedo

Experience

UNISOL	Universidade de Aveiro, Portugal
MAR 2012 - PRESENT	Researcher
DESCRIPTION	<p>Research grant to work for UNISOL, a European consortium whose goal is to build a domestic solar heating system from the ground up. My responsibilities and projects included:</p> <ul style="list-style-type: none">· Prototyping an embedded control system based on a PIC32 microcontroller and several sensors and actuators.· Development of a system simulation model using MATLAB and Simulink.· Deployment and administration of a Linux server running an OpenStack cloud computing environment, a MATLAB computation clusters, and other key services.
Xenomai Lab	Universidade de Aveiro, Portugal
JAN 2011 - PRESENT	Software Engineer

DESCRIPTION	Principal developer and maintainer of the Xenomai Lab real-time control platform. This included up-close work on areas such as <ul style="list-style-type: none"> · Distributed version control using git. · Graphical User Interface development using Qt/C++. · The Xenomai real-time framework and its real-time semantics in C. · Licencing, packaging and distribution of a free software project.
JAN 2012 - PRESENT	Master Thesis Colaborator
DESCRIPTION	Technical coordinator for several student master thesis <ul style="list-style-type: none"> · Sep 2012 - Present <i>Plataforma de ensino baseada em Xenomai Lab.</i> · Jan 2012 - Dez 2012 <i>Controlador Adaptativo baseado em Xenomai.</i>

Publications

SEPTEMBER 2012	Xenomai Lab - A Platform for Digital Real-Time Control
IN	INForum 2012 Proceedings

Education

2005–2012	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
DESCRIPTION	5 year degree (Bachelor and Master's included). Thesis graded 19/20 after public defense.
2008–2009	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

PORTUGUESE	Native speaker
ENGLISH	Advanced speaker. Five years of education in the British Council achieving level A in First Certificate of English (2001) and level B in Certificate of Advanced English (2004)
SPANISH	Basic understanding in both written and spoken form.

Skills

SOFTWARE	<p>A thorough understanding of the C programming language and Real-Time Operating Systems semantics, based on Linux variants such as Xenomai, RTAI and RTLinux.</p> <p>Working knowledge of C++/Qt GUI framework and modern development concepts such as Test Driven Development, Continuous Integration and cloud computing.</p>
HARDWARE	<p>A working knowledge of PIC microcontrollers, basic analog filter design and PCB prototyping using EAGLE.</p>
SOCIAL	<p>Experience in multicultural environments</p> <p>Open-Minded</p> <p>Highly responsible and professional</p>
ORGANIZATIONAL	<p>Independent research</p> <p>Strong drive for initiative</p> <p>Planning and scheduling of team/individual project.</p>
OTHERS	<p>Driving License Category B-1</p>