


Curriculum Vitae

Personal information

Name	José Nogueira
Address	Rua São João Bosco, N° 6, 2º Dto, 2790-434 Queijas (Portugal)
Mobile	+351 966611899
E-mail	jose.nogueira@outlook.pt
	www.linkedin.com/in/engjosenogueira
Nationality	Portuguese

Education details

Title of qualification awarded	Master Degree (MSc) in Electronics Engineering
Date	2013
Grade	16 out of 20 (ECTS grade: B)
Accreditation	Recognized by European Network for Accreditation of Engineering Education (ENAE) through the EUR-ACE quality label.
Principal subjects	<ul style="list-style-type: none">- Automated Measurement Systems- Electronic Systems of Computers- Smart Sensors and Actuators- Embedded Systems

MSc Thesis:

Title: The Receiver Analysis and Design from a System Point of View

Grade: 17 out of 20 (ECTS grade: A)

Workplace: Instituto de Telecomunicações (IT) based at Instituto Superior Técnico (IST)

- This thesis was chosen due to the challenge it represented and also its inherent meaningful impact, since mobile receivers have an increasing importance in the medical area;
- This type of analysis had never been done in Portugal, and even abroad it hadn't been done so thoroughly. It allows a cleaner transition of the receiver topology to the circuit level and hence a shorter time to market;
- Skills developed: Autonomy, Resilience, Analytical skills, Creativity and Communication.

Relevant Project:

Title: pH Controller for small aquariums

Subject: Smart Sensors and Actuators

Laboratory Grade: 18 out of 20 (ECTS grade: A)

Gallery: <https://www.dropbox.com/sh/lsi23uuxkzh33of/7UXA8YOji8>

- The main motivation for this project was the fact that it was developed from scratch, instead of the usual handout provided by the teacher. The workgroup went through all the stages such as design, development and testing;
- The pH controller was mainly formed by a printed circuit board developed by the workgroup, a LCD, a USB interface, a pH sensor and two motors. A software interface was also developed allowing the user to communicate with the pH controller. Having this degree of freedom in a project was quite motivating;
- After presenting this project, due to its complexity, attention to detail and features available, the group members were invited to be supervisors in the summer Robotics Workshop;
- Skills developed: Teamwork, Resilience, Analytical skills, Creativity and Communication.

Educational Institution	Instituto Superior Técnico (IST)
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Title of qualification awarded	Degree (BSc) in Electronics Engineering
Date	2011
Principal subjects	- Instrumentation and Measurement - Control
Educational Institution	Instituto Superior Técnico (IST)

Career history

Position held	Supervisor in the summer Robotics Workshop
Date	July 2011
Description	<ul style="list-style-type: none"> • LEGO MINDSTORMS NXT 2.0 robots were first introduced this year, meaning preparation (planning, development and testing) was crucial to provide the participants with the full experience; • Responsible for testing software features and the developed sensor board on a LEGO robot prototype; • Responsible for the participants' safety and laboratory material; • Supporting the participants in their attempt to build a customized version of a LEGO robot to follow a predefined route; • On the last day, the participants were able to meet all the predetermined Workshop goals at the end of the competition.
Skills developed	Leadership, Responsibility, Communication, Initiative, Teamwork.
Additional information	http://mediawiki.isr.ist.utl.pt/wiki/Ocupação_Científica_de_Jovens_nas_Férias_2011
Employer	Instituto Superior Técnico (IST)

Personal skills

Languages	Portuguese (Mother tongue) English			
Social skills	- Communication - Teamwork - Autonomous	- Flexible - Proactive - Reliable	- Resilient - Responsible - Helpful	- Honest - Self-Motivated
Technical skills	<ul style="list-style-type: none">• Electronics• Instrumentation• Automation• Control• Embedded Systems• RF System Design• DSP & PIC Microcontrollers	<ul style="list-style-type: none">• MPLAB IDE• C• Verilog• Assembly• FPGA Programming• Xilinx ISE/EDK• Cadence	<ul style="list-style-type: none">• Agilent ADS• Agilent Genesys• MATLAB• LabVIEW• SolidWorks• Wolfram Mathematica• Microsoft Office	
Driving licence	B/B1			

Additional information

Sports	<ul style="list-style-type: none"> - Rock Climbing - Trail Running - Football
Personal Notes	<ul style="list-style-type: none"> - Geographically mobile