Diego Casella

Curriculum Vitae

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Treviso

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Info

Date of birth	October 26, 1985
Residence	Montebelluna
Nationality	Italian

Work Experience

January 2014–current	**University of Padova, Department of Mathematics** Research and collaboration activities, followed by the seminars[1] below:

- Co-Simulazione di un sistema di controllo a microcontrollore;

- Linguaggi e strumenti per applicativi software di simulazione intensiva;

- Accelerazione GPU nella simulazione-controllo-identificazione di sistemi fisici;

- IaaS/SaaS computing, storage;

- Cloud Computing;

- Web Apps;

- Continuous Integration;

January 2014 – current	**SimNumerica srl** μLab Lead developer, with tasks spanning from product development, website and server maintenance, REST API development etc...
October 2012– December 2013	**SimNumerica srl** Full-time collaboration with SimNumerica srl right after graduation, aimed at increase the amount of devices supported and improve its usability and User eXperience/Interface.
2010–2012	**SimNumerica srl** Part-time collaboration with SimNumerica[2] srl to help developing a co-simulation software for embedded devices called μLab[3] written in Java, with critical parts in C language.
May– September 2010	**Google Inc.** I've been chosen for the second year in a row as Google Summer of Code student; that year my job was to develop a library to authenticate and assign the security level of Plasma widgets downloaded from the internet[4] , using GPG sign, recognize the and categorize them according to they keys available in the user computer.
May–	**Google Inc.**

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[1]Freely available at https://github.com/polentino/unipd_seminars, italian only

[2] http://www.simnumerica.com/ (italian only)

[3] http://www.simnumerica.com/content/che-cosé-mlab (italian version), http://www.simnumerica.com/content/what-mlab (english version)

[4] http://polentino911.wordpress.com/2010/08/13/authentication-framework-closing-the-circle-screencast/

September 2009	I've been selected to partecipate at Google Summer of Code, an annual event promoted by Google which aims to provide a summer job in the IT field to students willing to work on opensource projects. In my case, I choose to work with KDE (www.kde.org) with the purpose of developing an IDE for their Plasma widgets[5] , written in C++ and using Qt framework.
2007–2009	**Electrician/PLC Developer, INPROS srl** INPROS srl was born because a new associate joined DBLtec, therefore my tasks were the same as in DBLtec.
2004–2007	**Electrician/PLC Developer, DBLtec snc** Electrical engineering technician tasks working on cabling, reparing and installation of machines for plastic injection in DBLtec[6] . Allowed to modify part of the PLC program according to customer whishes. Translated *Use and Maintenance* manual of various products in english.

Education and Certifications

Gen 2014 - March 2014	**Image Processing, Udacity online course** Result: passed (certificate link)
Gen 2014 - March 2014	**Heterogeneous Parallel Programming, Udacity online course** Result: passed (certificate link)
Feb 2013 - April 2013	**nVidia CUDA® computing, Udacity online course** Result: passed
Jan 2013 - March 2013	**Data Structure and Algorithms, Coursera online course** Result: passed
2004–2012	**Bachelor Degree in Control Systems, University of Padova.** Final grade: 80/110
1999–2004	**Electrical engineering technician ed Industrial Automation Degree, ITIS "E. Barsanti", Castelfranco V.to** Grade: 90/100

Languages

Italian	Mother tongue

English	Comprehension		Communication		Writing
	Hearing skills	Reading skills	Verbak Skills	Writing skills	
	B1	B2	B1	B1	B2

Technical Skills

Languages	Java, C++, QML, Assembly, C, Bash, SQL, PHP, JavaScript, Python, LATEX, HTML and CSS
Frameworks	Qt Toolkit, C++ STL, Java Swing, KDE Libraries, Boost Libraries, jQuery
Platforms	GNU/Linux such as CentOS and Ubuntu, Microsoft© Windows ® (XP/7)
Tools	QtCreator IDE, Eclipse IDE, Netbeans IDE, CMake, Git, Subversion, gdb, valgrind, callgrind, Linux shell commands

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[5] http://polentino911.wordpress.com/2009/08/09/some-improvements-on-plasmate-timeline/
[6] http://www.dbltec.it/

| Other Competences | Embedded sistems simulation, Microchip PIC® devices programming |