

Diego Casella

Curriculum Vitae

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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 Mathemaics Research and collaboration activities, followed by the seminars below (freely available at https://gitorious.org/unipd_seminars/unipd_seminars/ , italian only): <ul style="list-style-type: none">• 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 μ Lab 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 ¹ srl to help developing a co-simulation software for embedded devices called μ Lab ² 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 ³ , using GPG sign, recognize the and categorize them according to they keys available in the user computer.
May–	Google Inc.

¹ <http://www.simnumerica.com/> (italian only)

² <http://www.simnumerica.com/content/che-cosé-mlab> (italian only)

³ <http://polentino911.wordpress.com/2010/08/13/authentication-framework-closing-the-circle-screencast/>

September 2009	I've been selected to participate 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 ⁴ , 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, repairing and installation of machines for plastic injection in DBLtec ⁵ . Allowed to modify part of the PLC program according to customer wishes. Translated <i>Use and Maintenance</i> 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 B1	Reading skills B2	Verbak Skills B1	Writing skills A2	B2

Technical Skills

Languages	Java, C++, QML, Assembly, C, Bash, SQL, PHP, JavaScript, Python, L ^A T _E X, 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

⁴ <http://polentino911.wordpress.com/2009/08/09/some-improvements-on-plasmate-timeline/>

⁵ <http://www.dbltec.it/>

Other Competences	Embedded systems simulation, Microchip PIC [®] devices
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