Diego Casella

Curriculum Vitae

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Info

Date of birth	October 26th, 1985
Residence	Leuven (Belgium)
Nationality	Italian

Work Experience

June 2015– current	**Noesis Solutions NV** Full-stack Software Engineer working on **id8**, a brand-new, distributed webapplication for PIDO development (Process Integration and Design Optimization).
January 2014– May 2015	**University of Padova, Department of Mathematics** Research and collaboration activities, followed by seminars[1] about *Co-Simulation*, *GPU computing for system identification*, *Cloud computing*, etc ...
January 2014 – May 2015	**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. Increased the number of simulated devices from 6 (the ones written in-house) to 1300+, thanks to a plugin for MPLAB-X I wrote, which gives access to virtually any of Microchip's device.
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– September 2009	**Google Inc.** 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**

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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/

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

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.**
Thesis: Realization and Co-Simulation of a Three-Loop algorithm for a missile trajectory control
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	Verbal Skills	Writing skills	
B1	B2	B1	B1	B2

Dutch | In the process of learning it :)

Technical Skills

Languages | Scala, Java, JavaScript, C++, QML, Assembly, C, Bash, SQL, PHP, Python, LaTeX, HTML/CSS

Frameworks | Spring, Hibernate, Akka, jQuery, Bootstrap, KnockoutJS, Java Swing, Qt Toolkit, C++ STL, KDE Libraries, Boost Libraries

Platforms | GNU/Linux such as CentOS and Ubuntu, Microsoft© Windows ® (XP/7/8/10)

Tools | IntelliJ, Maven, QtCreator IDE, Eclipse IDE, Netbeans IDE, CMake, Git, Subversion, Mercurial, Jenkins, Docker, gdb, valgrind, callgrind, Linux shell commands

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

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[6] http://www.dbltec.it/

Additional Information

Avid reader and tinker, give me a programming book or a PiZero, and I'll be the happiest person on Earth. I also enjoy playing videogames, watch TV series, jogging and walking on historical downtowns in my area with my fianceé.
Challenge me with an impossible task, and I'll break it down until it's done.