Egon Geerardyn

Electronics Engineer with a passion for IT

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born 15 April 1988 (Belgian)

education

2011 – 2016 prospect June 2016	**PhD Electrical Engineering** In my research on user-friendly identification of linear systems, I gained expertise in system identification and measurements. During my two-month stay at the Control System Technology group at the Technische Universiteit Eindhoven, I improved my proficiency in robust control and applied my research in the field.	Vrije Universiteit Brussel
2006 – 2011	**BSc & MSc Electrical Engineering and IT (ir.)** In my thesis "A Simulation Method for Pinpointing the Dominant Nonlinear Contributors in CMOS Circuits" I wrote a tool in **ANTLR**, **Java** and **MATLAB** that performs a labor-intensive Volterra analysis on electrical circuits. For this work I received the IMEC award for best master thesis at the VUB.	Vrije Universiteit Brussel
2011 – now	I continually strive to perfect my abilities by taking courses such as **LabView Core 2** and **LabView FPGA**, hence I became a **Certified LabView Associate Developer** in 2014. I have successfully completed online courses such as Convex Optimization, Functional Programming with Scala, Machine Learning and Introduction to Databases that were taught by experts from Stanford and EPFL.	

experience

2012 – now	**Major contributor and maintainer (since 2015)** I maintain the open-source `matlab2tikz` program that converts **MATLAB** figures to **TikZ** (LaTeX) code. This program is one of the ten most-downloaded programs for MATLAB.	github:matlab2tikz
2009 – 2011 summers	**Engineering summer jobs** For the system identification and electrical measurements courses, I made course notes, lab instructions and measurement set-ups using **LabView** and **NI Elvis II**.	ELEC(Vrije Universiteit Brussel)
2007 – 2009	**Web master and server admin** For my engineering fraternity, I updated the website to **PHP** / **Joomla** and helped to maintain the **Gentoo Linux** web server running **Apache**.	Polytechnische Kring

languages

Dutch	Native	
English	Advanced	Daily use in an academic setting.
French	Intermediate	I have been living in Ixelles (Brussels) since 2013.

competences

For my everyday work, I rely on **Mac OS X**, **MATLAB**, **SimuLink**, **LabView**, **Sage**, **LaTeX** and **git**. In previous projects, I have used **Python**, **ANTLR**, **Scala**, **Java**, **Delphi**, **assembly** and **VHDL** amongst others. As a teaching assistant, I taught **C** for **microcontroller** programming for electronics and control labs.