Egon Geerardyn

Electronics Engineer with a passion for IT

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egon.geerardyn@gmail.com
born 15 April 1988 (Belgian)

education

2011 – 2016
prospect
June 2016
    PhD Electrical Engineering (dr.) — Vrije Universiteit Brussel

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. Promotors: Johan Schoukens and Tom Oomen (TU/e).

2006 – 2011
    BSc & MSc Engineering Science: Electronics and IT (ir.) — Vrije Universiteit Brussel

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. Promotors: Piet Wambacq and Gerd Vandersteen.
For this work I received the IMEC award for best master thesis at the VUB.

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 Databases that were taught by experts from Stanford and EPFL.

experience

2012 – now
    Major contributor and maintainer (since 2015) — github:matlab2tikz

I maintain the open-source program `matlab2tikz` that converts **MATLAB/Octave** figures to **TikZ** (LaTeX) code. This program is one of the most-downloaded programs on FileExchange.
I give guidance to half a dozen volunteers and keep track of the codebase using **git** and **Jenkins**.

2009 – 2011
    Engineering summer jobs — ELEC (Vrije Universiteit Brussel)

For the statistics, system theory, system identification, and courses, I made course notes, lab instructions, and measurement set-ups using **LyX**, **LabView** and **NI Elvis II**.

2007 – 2009
    Web master and server admin — Polytechnische Kring

For my engineering fraternity, I updated the website to **Joomla** and helped to maintain the **Gentoo Linux** web server running **Apache**, **MySQL** and **PHP**.

languages

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

skills

For my everyday work, I rely on **Mac OS X**, **Linux**, **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.