

# Egon Geerardyn

Electronics Engineer with a passion for IT




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## education

- 2011 - 2016 **PhD Electrical Engineering (dr.)** [Vrije Universiteit Brussel](#)  
prospect  
June 2016  
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.