

# Stijn Van Caekenberghe

<http://www.onvoltooid.be/contact/>

## Profile: Research & Development of Communication Systems.

A recently graduated telecommunications engineer whose interests stretch from the PHY layer up to the APP layer of the TCP/IP stack.

### Experience

**Intern at Imec** oct 2010 - june 2011  
Writing a master thesis at Imec (Leuven) on Filterbank Multicarrier (FBMC) for fifth generation wireless communication systems.

**Intern at Broadcom** july 2010 - aug 2010  
Testing DSL modem chipsets for ITU-T G998.4 (G.inp) compliance at Broadcom (Mechelen).

**Intern at Alcatel-Lucent** aug 2009  
Creating a regression tool for the DSL Capacity Simulator of the DSL Experts team at Alcatel-Lucent (Antwerpen).

**Student jobs**  
Web developer at the department of chemical engineering (K.U.Leuven) in 2008; Employee at Carrefour Grimbergen in 2004, 2005 en 2007.

### Education

**Université catholique de Louvain**  
*M.Sc. Electrical Engineering* 2009-2011  
Dual Degree: Katholieke Universiteit Leuven (2009 - 2010) and Université Catholique de Louvain (2010 - 2011).

**Katholieke Universiteit Leuven**  
*B.Sc. Electrical Engineering* 2006-2009  
Major: Electrical Engineering;  
Minor: Computer Science.

### Other Data

- Born: Vilvoorde, April 16, 1988
- Nationality: Belgian
- Driver's License B (2006)
- Muziekschool Meise: Piano (1996 - 2003)
- Leisure:
  - Projects on technology
  - European cinema

### Technical Skills

#### *Digital signal processing*

- Modelling of DSP for communications (Matlab)

#### *Digital electronics*

- Modelling (SystemC, VHDL, Verilog)
- FPGA: Programming (Xilinx System Generator)
- ASIC: Logic Synthesis (Synopsys Design Compiler) Simulation (Cadence NCSim, MG ModelSim) Place & Route (Cadence SoC Encounter) Standard Cell Design (Cadence Virtuoso)

#### *Microwave electronics*

Modelling & design (Agilent ADS, Ansoft HFSS)

#### *Computer networking*

IGP & MPLS Configuration (Cisco IOS)

#### *Programming*

- Object oriented (Python, Java)
- Numerical (Matlab)
- Imperative (C)
- Scripting (Python, PHP)

#### *Documenting*

- DTP (LaTeX, Scribus, MS Office)
- Web (HTML, CSS) -- CMS (Wordpress, Drupal)
- Presentations (LaTeX, Apple Keynote, MS Office)

#### *Graphic design*

- Raster graphics (Adobe Photoshop, Gimp)
- Vector graphics (Inkscape)

### Other Skills

#### *Languages*

- Dutch (mother tongue)
- English (very good)
- French (good)
- German (average)

#### *Entrepreneurship*

Knowledge of business administration.