

# Curriculum Vitae

## Hendrik Richter

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### University

- 08/2012 – 03/2013** Chair for Integrated Signal Processing Systems (ISS)  
Diploma Thesis: “Architecture Exploration for Compressed Sensing for LTE Channel Estimation”
- 10/2010** Received “NRW Bildungsfonds” scholarship
- 07/2010** Chair of Integrated Analog Circuits and RF Systems (IAS)  
Student research project  
Design and verification of a low-power low-IF digital demodulator for Bluetooth
- Evaluating different algorithms and demodulator-types (math, Matlab)
  - Implementation and verification of candidate types (VerilogAMS, VHDL, Cadence Suite)
- 02/2010 – 06/2010** Semester abroad at Universitatea Tehnica Cluj-Napoca, Romania
- 08/2008** Received Vordiplom (Intermediate Examination)
- since 10/2006** Electrical Engineering and Information Technology, RWTH Aachen

### Student Assistant

- 04/2011 – 08/2011** Institute for Networked Systems (iNETS)  
Working on the QUASAR project, research and development regarding spectrum assessment methodologies and cognitive radio.
- 12/2008 – 12/2009** Chair of Electrical Engineering and Computer Systems (EECS)  
Verilog Synthesis and Verification of a new 10Gbit LAN LDPC Decoder chip
- 04/2009 – 07/2009** Chair for Integrated Signal Processing Systems (ISS)  
Holding official exercise courses for students in system theory
- 05/2008 – 07/2008** Institute of Man-Machine-Interaction (MMI)  
Support for and correction of mock examinations „Grundgebiete der Informatik II“

## Practical Work Experience

- 01/2012 – 05/2012** Internship at Texas Instruments Deutschland GmbH
- Worked in Digital Back-end design team for the MSP430 microprocessor
  - Performed analysis and optimization of power dissipation
- 12/2007 – 12/2009** Webmaster at Evangelischer Kirchenverband Köln und Region (protestant church of the city of Cologne)
- Responsible for planning, development and maintenance of its entire internet infrastructure
- 08/2005 – 04/2006** Civilian Service at DK Integrationsbetriebe gGmbH
- since 09/2003** Self-employed contract work as web developer for various companies, including:
- Immofux GmbH: refinement of a country-wide portal for real estate agencies
  - IDS-Design GbR (DATA BECKER GmbH & Co. KG): development of a complete web portal that was first sold electronically to customers, later sold in boxes at retail stores throughout the country
  - peach-media GbR; webcontractor e.K.; MEGAMINversand HG: development of custom software, custom support regarding all technical aspects

## School

- 05/2005** Abitur (Final Secondary School Exam)

## Knowledge

**Electrical Engineering:** Verilog, VHDL, Bluespec, LISA

**Software:** Cadence Suite, Synopsys Suite, Linux, Matlab/Octave, Windows

**Programming:** bash, C, C++, JavaScript, php, Python, SQL, XML, JSON

## Languages

**German:** mother tongue

**English:** good in written and spoken

**French:** basic knowledge

## Miscellaneous

- 01/2007** Published in “php Magazin”
- since 2006** Multiple talks and presentations at “LinuxTag Essen”, “FrOSCon”, “Linux Tag”
- 11/2004 – 10/2012** Coordinator of the GNOME Project's German Translation Team
- Driving License, EU Category B