

Ulrike Richter



PERSONAL DATA

Name	Ulrike Richter
Date of birth	29. May 1981
Place of birth	Leipzig, Germany
Nationality	German
Marital status	unmarried
Gender	female
Address	Södra Förstadsgatan 84 B 21420 Malmö, Sweden
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EDUCATION

- Ph.D. studies within biomedical signal processing September 2005 – present
Lund University,
Department of
Electroscience
- Graduation as Diplomingenieur in electrical engineering, especially microelectronics June 2005
- Studies of electrical engineering at the University of Hanover October 1999 – June 2005
University of Hanover
- Intermediate exam in electrical engineering October 2001
University of Hanover
- German Abitur, general qualification for university entrance June 1999
Gymnasium Markranstädt

RESEARCH INTERESTS

- Ph.D. studies within the field of biomedical signal processing, especially development of algorithms in Matlab aiming a better understanding of the organisation of atrial fibrillation September 2005 – present
Lund University,
Department of
Electroscience
- Master thesis: Use of phase modulated delta-sigma data streams for jitter measurements: implementation of simulations in Matlab and measurements January 2005 – present
Munich,
Infineon Technologies AG
- Study thesis: Concept and realisation of an event recorder for long-term ECG: concept and build-up of an analog part to amplify and filter the incoming signals, analog-digital-conversion, concept of a digital part to compress and store the data, realised with Verilog January 2003 – July 2004
University of Hanover,
Institute for microelectronic systems
- Participant in a chip design course to design, realise and verify a digital integrated circuit in Verilog in a team April 2002 – June 2002
University of Hanover,
Institute for microelectronic systems

EMPLOYMENT

- Ph.D. student at the Signal Processing Group September 2005 – present
Lund University,
Department of
Electroscience

- Mixed-signal flow: support of a design group through solving problems occurring in the design flow and writing a documentation January 2004 – June 2004
Stockholm,
Infineon Technologies AG
- Qualification test:
 - functionality tests
 - High Temperature Operating Life (HTOL) tests
 - Temperature Humidity Bias (THB) tests
 - Electrostatic Discharge (ESD) tests
- Component Verification:
 - test of Bluetooth modules
 - development of a test specification and test plan for the firmware of a Bluetooth mouse

- Development of a visualisation software in C for a medical application to detect post-operative heart arrhythmia April 2001 – December 2002
University of Hanover,
Institute for microelectronic systems
- Hardware tasks (layout and build-up of smaller boards)

QUALIFICATIONS

- Knowledge in C, Verilog
- Knowledge in Matlab, Cadence Analog Design Environment, Synopsys Design Compiler, ModelSim, Eagle
- Course: Cadence Analog Design Environment, Bracknell (GB), January 2004
- Course: Rhetoric – Convince with free speech, Theodor-Heuss-Akademie, Gummersbach, September 2004
- Fluent in spoken and written English
- Fluent in spoken and written Swedish
- Basic conversational ability in French
- Language courses:
 - Technical English for electrical engineers, 2 semesters
 - Technical Communication and Argumentation, 1 semester
 - Swedish, 4 semesters

ACTIVITIES

- elected member of the Malmö Rowing Club council November 2006 – October 2007
- elected student representative April 2002 – March 2004
- elected member of the faculty council April 2003 – March 2004
- tutor for electrical engineering students of the first semester Wintersemesters 2000/01, 2001/02 and 2002/03
- organisation of the tutorial for electrical engineering students of the first semester June – December 2002 and June – December 2003
- helper and partly organiser of the “Tech-Buffer”, an information event about technical studycourses for high school pupils, organised by students Summersemsters 2000, 2001 and 2002
- elected member of the Protestant Student Council of the Protestant Student Congregation Hanover (ESG) June 2001 – June 2002