Date prepared: March 15, 2009

Education

10/2003 — 05/2009	University of Mannheim, Germany Student of Computer Engineering; Expected Graduation: May 2009; Major: Optoelectronics; Final thesis: "Development and Validation of a Real-Time Freehand 3D Ultrasound Navigation System for Liver Surgery with GPGPU Acceleration"
	– Research Experience –
09/2008 — 02/2009	Brigham and Women's Hospital and Harvard Medical School, USA Research assistant; Project: "Real-Time 3D Ultrasound Navigation"; Developed a software to gen- erate real-time-updated 3D volumes with tracked ultrasound for surgical navigation; Contributed to the open-source image guided therapy software Slicer3D; Results will be documented as my final thesis and published as a paper
09/2006 - 08/2007	University of Waterloo, Canada
	Exchange student in Computer Engineering
	Professional Experience
01/2008 — 07/2008	Internship at the iC-Haus GmbH, Bodenheim, Germany Developed the optics for a laser rangefinder with the optical simulation software Zemax; Solicited bids for the production of a prototype of the optic; Analysed and simulated electrical circuits; Docu- mented the work in a 28 page long report
09/2007 – 12/2007	Research Assistant under the supervision of Prof. Dr. Karl-Heinz Brenner at the chair of Optoelectronics at the University of Mannheim, Germany Evaluated and implemented different camera calibration algorithms
08/2004 — 08/2006	Research Assistant under the supervision of Prof. Dr. Karl-Heinz Brenner at the chair of Optoelectronics at the University of Mannheim, Germany Developed a software for "Digital Homogenization of the Brightness of digital Video Projection Systems" in Delphi. The software is able to uniform the output's brightness of arbitrary video projectors. The program records the display of the projector and calculates a characteristic curve for every output pixel. With this characteristic curves it is possible to adjust future projections in a way that the brightness is consistent; Documented the work in a 34 page long report

Awards

12/2007 – present	Scholarship of e-fellows
	Awarded to outstanding students in Germany
09/2006 - 07/2007	Scholarship of the state Baden-Württemberg
	Awarded to outstanding students in the federal state Baden-Württemberg
03/2006 – present	Scholarship of the Friedrich-Ebert-Stiftung
	Foundation to support students and academics with outstanding qualifications from Germany and
	abroad; Only awarded to 0.5% of all German students.

Skills

•	 – Research Skills – Highly motivated and innovative problem solver Ability to work in a team or individually with minimal support Fast learner with strong interpersonal skills Very attentive and always working to meet deadlines while attempting to surpass selected
•	goals Excellent education background with international experiences as a student in Computer Engineering
	– Technical Skills –
Programming Scripting Operating Systems	C, C++ , Delphi, Java, LateX , Scheme, SQL, Turbo Pascal, Visual Basic, Verilog HTML, Perl, PHP, Python, XML Linux: Ubuntu , Debian, Fedora, Suse; Windows: 95, 98, ME, 2000, XP; Windows Server:
Software Development	2000, 2003; Palm OS; NachOS Zemax , Microsoft Visual Studio, Eclipse , Maple, Matlab, Mathematica, DB2, Xilinx Ise, Sonnet EM Suite, Adobe Photoshop, Solidworks Open-Source: Slicer3D (http://www.slicer.org), vtk (http://www.vtk.org)
Development	
Presentations	- Writing Experience - Review of Ontical Caborance Temography
Fresentations	Review of Optical Coherence Tomography 74 Slides
Documentations	Software Requirements and Specifications for a VoIP System 138 pages
	– Languages –
German English	Native Speaker Fluent
	Co-Curricular Activities
	– Honorary Posts –
11/2007	Student volunteer at the Supercomputing Conference 2007 in Reno, NV, USA Installed glass fibers for this important conference; Worked at the information desk of the network team; Helped exhibitors in time of need to fix network problems
11/2005	Student volunteer at the Supercomputing Conference 2005 in Seattle, WA, USA see above
10/2005 - 10/2006	Supervisory Board of the University of Mannheim,
07/2005 - 07/2006	Sole student member President of the Students Representatives Faculty of Mathematics and Informatics of the University of Mannheim
06/2005 - 09/2006	Senior organizer of the 2 weeks long freshman introduction course Faculty of Mathematics and Informatics of the University of Mannheim
04/2005 - 08/2006	Board of Directors of the Institute of Computer Engineering, Sole student member
10/2004 - 09/2006	Faculty Council of the Faculty of Mathematics and Informatics of the University of
	Mannheim,
09/2004 — 10/2005	Mannheim, Student member Students Council of the University of Mannheim, Financial consultant
09/2004 – 10/2005	Student member Students Council of the University of Mannheim,
09/2004 – 10/2005 2000 – present	Student member Students Council of the University of Mannheim, Financial consultant