Simon Kallweit

Personal Data

Born	7 Nov 1982, Switzerland
Address	Grubenweg 8, 3360 Herzogenbuchsee, Bern, Schweiz
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Education

2010 – 2013 **BSc in Computer Science**, *Swiss Federal Institute of Technology (ETH)*, Zürich.
Major: Computational Science
Thesis: "Photon Beam Methods in Rendering" Supervisor: Prof. Markus Gross

1997 – 2001 **Matura**, *Gymnasium*, Langenthal.
Thesis: "Computer Simulation of Dynamics and Kinematics of Rigid Bodies"

Work Experience

2009 – 2011 **Software Developer**, *FELA Management AG*, Diessenhofen.
Development lead for a commercial localization platform based on GSM/GPS technology. Contributions to the open-source real-time operating system eCos.

2001 – 2008 **Software Developer**, *intefo AG*, Herzogenbuchsee.
Responsible for analysis, design, implementation, testing and attendance of software systems. Worked in multiple fields, including user interfaces, server applications and embedded systems in both Windows- and Linux-based environments.

Awards

Aug 2013	Demodays, 4k Procedural Graphics, 1st place
May 2013	Revision, PC 64k Intro, 2nd place
Aug 2012	Demodays, Realtime Size-Limited Compo, 1st place
Mar 2004	m4music Demotape Clinic, Best Newcomer Electronic Music

Languages

German	Mothertongue
English	Fluent
French	Intermediate

Computer Skills

Languages	C/C++, GLSL, x86 SIMD, Python, Ruby, Haskell
Tools	Git, Qt, Eclipse, CMake, LaTeX
OS	OSX, Linux, Windows

Interests and Projects

Physically based rendering
Demoscene, size-limited programming
Electronic music production and live performance

Grades

BSc in Computer Science

Course	Grade	ECTS
Analysis I / Analysis II	4.75	13
Introduction to Programming	5.75	7
Data Structures and Algorithms	6.00	7
Parallel Programming	5.50	7
Linear Algebra	5.50	7
Discrete Mathematics	4.00	8
Physics	6.00	6
Digital Circuits	6.00	6
Data Modelling and Databases	5.00	7
Formal Methods and Functional Programming	4.75	7
Numerical Methods for Computer Science and Engineering	5.75	7
Operating Systems and Networks	5.50	8
Systems Programming and Computer Architecture	5.75	8
Theoretical Computer Science	5.75	8
Probability and Statistics	5.00	6
High Performance Computing for Science and Engineering	5.75	8
Numerical Methods for Partial Differential Equations	4.75	8
Visual Computing	5.75	8
Compiler Design	5.75	8
Applied Computer Architecture	6.00	6
Advanced Methods in Computer Graphics	6.00	2
Bachelor Thesis	6.00	10

Swiss Academic Grading Scheme

6.0	Excellent	4.5	Satisfactory	2.0	Poor
5.5	Very Good	4.0	Sufficient	1.0	Very Poor
5.0	Good	3.0	Insufficient		