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Education

- 08/2012 – today **Ph.D. Computer Science, Swiss Federal Institute for Technology (ETH Zürich), Zürich**
Supervisor: Timothy Roscoe, working title of thesis:
“Authorization, Protection, and Allocation of Memory in a Large System”
- 03/2010 – 05/2012 **MSc. Computer Science, Swiss Federal Institute for Technology (ETH Zürich), Zürich**
Completed with a thesis titled “Virtual Memory in a Multikernel”,
supervised by Timothy Roscoe from the Systems Group at ETH Zürich.
- 10/2006 – 07/2011 **BSc. Computer Science, Swiss Federal Institute for Technology (ETH Zürich), Zürich**

Work experience

Computer Science Department, ETH Zürich, Universitaetsstrasse 6, CH-8092 Zurich:

- 2012 – today Assistant System Administrator for the Barrelfish Group
- 2009 – today Teaching Assistant for various courses on Operating Systems,
Systems Programming and Computer Architecture

HP Labs, 3000 Hanover St, Palo Alto, CA 94304, USA:

- 06/2014 – 08/2014 Internship in the Systems Software group: Working on OS support for
very large memories.

Other:

- 06/2008 – 09/2008 Internship at Sensirion AG¹: Designing firmware support for
industry-standard sensor buses (PROFIBUS and DeviceNet).
- 12/2005 – today Redesign and technical support for www.archinatura.ch (part time)
- 03/2009 – 02/2012 Layout VISIONEN, magazine of the computer science
student association at ETH Zürich (VIS)

¹ Sensirion AG, Laubisruestrasse 50, CH-8712 Staefa, SWITZERLAND

Publications

Not your parents' physical address space

with G. Zellweger, R. Achermann, K. Kourtis, T. Roscoe, D. Milojevic, in Proceedings of the 15th Workshop on Hot Topics in Operating Systems (HotOS-XV), Kartause Ittingen, Switzerland, May 2015

http://www.barrelfish.org/publications/pas_hotos15.pdf

Decoupling Cores, Kernels, and Operating Systems

with G. Zellweger, K. Kourtis, T. Roscoe, in Proceedings of the 11th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2014), Broomfield, CO, USA, October 2014

<http://www.barrelfish.org/publications/zellweger-decoupling-cores.pdf>

Virtual Memory in a Multikernel

<http://www.barrelfish.org/gerber-master-vm.pdf>

Master's thesis, May 2012

A Messaging Interface to Disks

<http://www.barrelfish.org/stocker-nevill-gerber-dslab-disk.pdf>

Distributed Systems Lab, with Manuel Stocker and Mark Nevill, July 2011

Barrelfish Technote No.15: Disk Driver Architecture

<http://www.barrelfish.org/TN-015-DiskDriverArchitecture.pdf>

with Manuel Stocker and Mark Nevill, July 2011

Languages

German	native
English	working proficiency

Open-Source projects

2006 – today Musicus MPC, a music player GUI for GNOME 2, written in C with GTK+
<http://simu.github.com/musicus-mpc/>

2011 – today Core contributor to the Barrelfish OS
<http://www.barrelfish.org>, <https://github.com/BarrelfishOS/barrelfish>

Interests

Playing the guitar (classical and electrical)
Reading fantasy and science fiction books
Badminton and Snowboarding
Photography