

Work Experience

- May 2010 – Embedded Software Engineer at Swissphone Telecom (Samstagern ZH)
- June 2009 – Feb. 2010 Internship at Mitsubishi Electric R&D, Japan.
Development of an radar anti-intrusion system

Education

- 2007 – 2009 M.S. in micro-engineering,
Swiss Federal Institute of Technology Lausanne (EPFL)
- Sept. 2008 – Feb. 2009 *Diploma project: Direct methanol fuel cell.
Improved fabrication processes for a portable fuel cell running on methanol.*
- February – May 2008 *Semester project: Nano-structure deposition system using wafer stencils
Developed electrostatic chuck in MEMS technology. Experience of cleanroom fabrication processes.*
- Sept. 2007 – Jan. 2008 *Semester project: Digital oscilloscope with USB interface.
Designed analog amplification and conversion electronics, developed visualisation software.*
- 2003 – 2008 B.S. in micro-engineering at EPFL
- July – September 2007 *Training on microstrips for microwave application
at King Mongkut Institute of Technology, North Bangkok, Thailand.*

Engineering skills

- Design Micro-electro-mechanical systems (MEMS)
Electronic circuits (analog, digital, integrated)
General mechanical design (CAD), industrial norms
- Manufacturing Cleanroom work experience
Laser machining
Mechanical workshop
Printed circuit board design and assembly

Computer skills

- Development C, C++, C#, Java, Python, Assembler
Embedded micro-controller systems: ARM, M16C, PIC, AVR
Image processing, computer vision
Mobile technologies: GSM, GPS, Bluetooth
Web applications with PHP, Python, HTML, Javascript
- Numerical analysis MATLAB
- CAD Pro/Engineer, finite element method with COMSOL/FEMLAB
Electronic circuits using Cadence, Eagle, SPICE

Languages

- German Native language
- English Fluent
- French Proficient (studies in the french-speaking part of Switzerland)