Stefan Schmidt

Curriculum Vitae

Education

08/1994–06/2001 **Abitur**, *Theodor-Heuss-Gymnasium*, Wolfenbüttel.

10/2001–09/2002 **Compulsory civilian service**, *Retirement home*, Schliestedt.

10/2002–10/2011 **Diplom (sehr gut)**, *Technische Universität Carolo-Wilhelmina*, Braunschweig, Computer science.
Started with Informations-System-Technik a mixture of computer science and electrical engineering. Changed to computer science to focus on software.
Minor in psychology.

Diploma Thesis

title *IBR-DTN in IEEE 802.15.4-based wireless networks*

supervisors Prof. Dr. Lars Wolf, W.B. Pöttner and J. Morgenroth

description Implementation and evaluation of an IEEE 802.15.4 convergence layer for IBR-DTN with segmentation and neighbor discovery. Work included all layers from hardware and drivers to the IEEE 802.15.4 Linux stack and the related configuration and performance tools and finally the convergence layer of the delay tolerant networking daemon IBR-DTN.

Experience

Vocational

since 04/2012 **Software Engineer**, *Samsung Electronics Research Institute*, Staines, UK.
Working on the Enlightenment Foundation Libraries (EFL). Improve performance, fix bugs and bring in new features. EFL is used in the Tizen OS as native toolkit and graphics layer.

05/2011–03/2012 **Freelance Software Engineer**, *Linux Foundation*, San Francisco, USA.
Integration of a flashing mechanism based on the Device Firmware Upgrade (DFU) specification into the mainline of the U-Boot bootloader.

05/2010–12/2011 **Freelance Release Engineer**, *BugLabs, Inc.*, New York City, USA.
Build and release engineering work with OpenEmbedded for the BUG 2.0 product. Helping the internal team with my good understanding of OpenEmbedded to build a full embedded Linux system with OpenJDK for ARM and BugLabs OSGI services above.

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02/2010–04/2010 **Freelance Software Engineer**, *Germany's national research center for aeronautics and space*, Oberpfaffenhofen, Germany.
Device driver development for several sensors used on a measurement rocket in outer space.

03/2007–04/2008, 08/2008–03/2009 **Freelance Software Engineer**, *Openmoko, Inc.*, Taipei, Taiwan.
Software development for a Linux based smartphone. Worked on different areas of the system. From driver development over wireless network management to middleware components. As well as user interface development with the Enlightenment Foundation Libraries.

since 03/2007 **Freelance Software Engineer**.
Running my own freelance business to help customers all over the world with my expertise.

Free and Open Source Software Experience

since 2010 **Maintainer**, *dfu-util Project*.
Maintainer and developer of the dfu-util host utility to flash devices supporting the Device Firmware Upgrade (DFU) specification of the USB forum.

since 2007 **Developer**, *OpenEmbedded Project*.
Developing a first class build system for embedded Linux systems. Used from small hobbyist projects up to large deployments. Nowadays used as the basis for the Yocto project of the Linux Foundation.
02/2011–06/2011 I served as member of the Technical Steering Committee to help bringing OpenEmbedded and the Yocto project together.

10/2005–12/2010 **Core Developer**, *OpenEZX Project*.
Worked on porting a platform of different Linux mobile phones from a 2.4 Linux kernel over to 2.6. Working with a small group of people all over the world and merging the resulting code back into the mainline Linux kernel.

2006–2009 **Freelance Author**, *Linux New Media AG*.
Various articles about Linux on smartphones.

Languages

German **native**
English **Professional working proficiency** *Lived in UK for 1.5 years*

Technical Skills

- Linux kernel development (ARM System-on-Chip, device driver)
- Linux system/core-os development (libraries, daemons, etc)
- Development in all areas of an embedded Linux system
- Operating systems: Linux, Unix and Windows
- Programing languages: C, C++, Shell, HTML and CSS

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Soft Skills

Teamwork	Worked in international teams with people from Europe, USA and Asia.
Team leading	Managed international and decentral Free and Open Source Software projects.
Public speaking	Spoken at various conferences about Free and Open Source Software projects.

Area of Expertise

- Linux based smartphones
- OpenEmbedded and Yocto based embedded Linux systems
- Linux core OS components for networking, location, telephony and sensors
- Enlightenment Foundation Libraries (EFL)
- USB Device Firmware Upgrade (DFU)
- Linux IEEE 802.15.4 networking stack and device driver

Publications

- Große Klappe, Linux Smartphone Motorola A780 im Test. Article in German Linux-Magazin 06/2006
- Smart zusammenmixen, Software-Entwicklung für Motorola Linux-Smartphones. Article in German Linux-Magazin 08/2006
- Offene Standards für Smartphones. Article in German Linux Technical Review 11

Interests

- Free and Open Source Software
- Snowboarding, Wakeboarding, Handball

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