

Sylvestre Gallon
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25 years.



Experience

05/09 – 09/09 USB developer for FreeBSD during the Google Summer of Code 09

- Implementation of libusb-1.0 emulation in FreeBSD.
- Implementation of a driver for the s3c2441 USB device driver.
- Work on the USB function stack.
- Update of all the USB Device drivers to factorize code.

11/07 – 01/10 BSP developer for Adeneo Embedded

- Work on the Linux imx.27 BSP.
- Implementation of the at91sam9rlek Windows CE BSP
- Implement of the neocore Linux and Windows CE BSP.
- Writing of a USB Function stack.
- Writing of a SDIO stack.
- Implementation NandFlash Drivers.
- I have added the support for some Atmel boards into U-Boot.

06/07 – 11/07 Linux BSP developer pour BCM.

- Adaptation of Linux for an at91rm9200 design.

2007 – 2009 Researcher at the System Laboratory of Epita (LSE).

- R&D on FPGA.
- R&D on the rathaxes project (a DSL/Driver)
- R&D on Operating Systems.

2007-2008 ASM and C/UNIX Teacher at Epitech.

- I have created courses and practical work for C language, and for Intel assembly for second year students at Epitech

Studies

- **Master EPITECH**
- **BTS Software engineering.**

Software and hardware skills

Kernel API:

- FreeBSD (contributor to the kernel)
- OpenBSD (USB stack, config subsystem, driver development)
- Linux (BSP development).
- Windows CE (BSP development).
- Windows NT (DDK USB).

Development:

- Strong skills in C language (daily use for 6 years)
- Strong skills in Arm and Intel assembly.
- Familiar with Perl, csh and sh scripts, ruby, C++, D and LISP.
- Have already used C# with mono.
- Have already read some sparc64 and ppc assembly

Hardware:

- USB guru.
- I know the SDIO protocol
- I have already used PCI, I2C, SPI and One Wire standards
- I have already been lost into a maze of GPIO!

Tools:

- vim, emacs, visual studio.
- gcc, pcc, llvm/clang
- latex
- cvs, subversion, p4, mercurial, git,

Others

Native French speaker and fluent in English

Contributor for FreeBSD (www.freebsd.org)

Port maintainer for OpenBSD (www.openbsd.org).

Windows Embedded Certified developer.

Speaker at Cambridge for the 200907 FreeBSD DevSummit.

Speaker at T-DOSE 2008, RMLL 2008 and JDLL 2008 for the rathaxes project.

Initiator and lead developer at pmsbd

Blog: <http://devsyl.blogspot.com>