Apelete SEKETELI
Born on October 27, 1984
email: apelete@seketeli.net
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35 Rue Achille Viadieu
31400 Toulouse
France

- Embedded Software Engineer, GNU/Linux Programmer -

Free Software related activities

- Hobbyist contributor to the Linux kernel project. On my spare time I write device drivers for the Ben NanoNote and GCW-Zero hand-held devices ,and I also help maintaining the Linux kernel for those devices, as a member of the Qi-Hardware and GCW Free Software communities. My patches can be found in the upstream Linux kernel source tree at
https://git.kernel.org/cgit/linux/kernel/git/torvalds/linux.git/log/?qt=grep&q=apelete.

- Hobbyist contributor to the OpenEmbedded project. On my spare time I fixed and maintained the JLime distribution, and I also maintain the BSP for the Ben NanoNote. My patches can be found in the upstream OpenEmbedded source tree at
http://git.openembedded.org/openembedded/log/?qt=grep&q=apelete and
http://git.openembedded.org/meta-handheld/log/?qt=grep&q=apelete.

Personal interests

- I host and administer myself a few online services like email, Jabber/XMPP chat, a Git web interface and a personal web log (http://apelete.seketeli.net), all running on a CentOS server.

- Regular practice of Tai-Chi martial art, Yang family style.

Work experience

Since Nov. 2011   **Open Wide (Toulouse, France)**
Embedded Linux software engineer.

- *Since July 2013, providing services for **Intel Corporation:***
  - Currently programming a daemon that drives hardware and software components in order to provide features such as audio playback and voice calls over Bluetooth, as well as playing sound notifications on an embedded device running an ARM Coretx-M4 processor.
  - I was involved in debugging non-trivial kernel space issues and setting up profiling tools to tune audio latency on Android-based kernel and userspace. I was also involved in the development of a C++ client/server infrastructure to transport voice over LTE network through the Android telephony stack, and the development of the Android audio HAL for Intel X86 devices.

Keywords: Embedded C programming, FreeRTOS, ARM Cortex-M4, STM32, DSP, I2S , Linux kernel memory allocation debugging, C++ programming, Android.

- *From Nov. 2011 to June 2013, providing services for **Zodiac Aerospace:***
Wrote a firmware for an Atmel AVR32 micro-controller, enabling hardware peripherals such as I2C temperature sensors, leds, real-time clock, flash memory chip and LCD touch-screen. The micro-controller was embedded into an airplane seat display unit. Also wrote the associated test software driving the micro-controller inputs and outputs.
Keywords: firmware & I2C bus programming, hardware enablement, flash memory mapping.

Mar. 2011 to   **Intel Corporation (Toulouse, France)**
Aug. 2011   *Linux kernel developer intern.*
Maintained a test driver for bluetooth and modem chips for the Linux MeeGo kernel and Android kernel. I also wrote the associated user-space program that drives the above mentioned chips.
Keywords: Linux kernel driver programming, I2S bus programming, git.

June 2007 to	**Isphers (Charenton Le Pont, France)**
Aug. 2007	*Linux system administrator intern.*
	Built computer networks for small offices and administered Linux workstations and servers.
	Keywords: Linux system administration, apache, mySQL, samba, sendmail, ftp, vnc.

Computer and communication skills

Programming languages	C, C++, Java, Bourne shell, VHDL, ARM Assembly language (AT91x40)
Version control	Git
Debugging	GDB, Valgrind, JTAG probe
Misc tools	GCC, GNU Make, Bugzilla
Written and spoken languages	English: fluent French: fluent

Education

2011	**Master of Science** at "Université Paul Sabatier" in Computer Science, Toulouse, France.
	Ranked First in a class of 13 students, with highest honours.