

Vivien Giraud

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EMBEDDED SOFTWARE DEVELOPPER

Passionate about hacking and Do It Yourself philosophy, I enjoy reverse engineering all I have on hand and developing tool to automate my research.

Education

2011-2014 **Bachelor, Real Time and Embedded Systems;** Ingésup (Aix-en-Provence)
Project Manager for TVOS and Litchi Project and in charge of laboratory

Experience

INSIDE Secure (2014-) Pre-sales and support of MatrixSSE and MatrixHCE software
MatrixSSE Secure Element in Software
MatrixHCE HCE based Mobile Payment Application Platform

NEOTION (2011-2014) Development of a debugger and a smartcard reader for QEMU
NeoGDB Based on GDB and OpenOCD
SmartCard Reader I wrote specifications of the proprietary usb protocol the company would use then search for appropriate electronical components, read datasheets then Hardware design the smartcard reader. Based on AVR32 chip, I wrote code so as to make the bootloader, the USB communication and firmware update.

Technical Experience

TVOS: Development of an open-source TV based on Linux and Litchi Project. I was in charge of low level development and packaging firmware image.

Litchi Project: Hardware and software development of a low cost video game console allowing you to use it as a media center.

Multi-voltage JTAG/Serial dongle: Hardware design of a JTAG/Serial dongle able to works on different voltage (1,8v - 3,3v - 5v) or can use any voltage between 1,8v to 5,0v. Based on **FT4232H** chip you can, at the same time, control your CPU using JTAG and received debug information via Serial port.

Brutas: I wrote tool to automate my research in security flaws on embedded products. Thanks to it I was able to find various breaches in surveillance cameras.
Knowledge in **LibUSB**, **LibFTDI**, **ARM Assembly**, **AVR32**

Extra Section

- Languages:
 - French (native speaker)
 - English (TOEIC 760)
 - Chinese, Japanese and Hungarian concepts
- Roller hockey, Guitar player, Reverse engineering