

Benoît MAUDUIT

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Nationality: French
Birth Date: October 6, 1988
31 years old
French Driving License

Freelance software engineer

Work Experience

May 2017 - December 2019

Set-Top-Box Software Engineer (Product side)

Groupe Canal+ - Issy Les Moulineaux (92), France

Technical leader for a multiroom Over-The-Top Set-Top-Box product
STB system integration around Linux with Yocto
DRM and security integration (Nagra CONNECT)

May 2014 - Nov. 2016

Set-Top-Box Security Software Engineer (SoC Manufacturer side)

ST-Microelectronics - Montrouge (94), France

• 2015 - 2016

Early security integration and debug on new product family (stih410, stih418).
Specialized in Secure Boot (Chain of Trust) and low power with Security constraints.
Work with STM Hardware validation team.

• 2014 - 2015

Security Integrator, targeting Set-Top-Box Certification.
Work with ST Security Architecture and different CAS (Content Access Service) providers
for preparing and validating Set-Top-Box Security Certifications.

Aug.2011 - May.2014

Software Engineer

Openwide Ingénierie (OWI) - - Paris 13^{ème}, France

Software development inside agency or/and directly at customers

• *ST-Microelectronics*

Nov.2012-May.2014

Security Software Contractor

- Security certification integrator
- Development of security build tools to ease integrator work.
- Secure Firmwares debugging

• *Thales*

Jun.2012-Nov.2012

Build-System Engineer

- Setup a Linux distribution production system for Thales. (Based on Debian)
- Private and secure build environment. Distribution and installer generation.
- Use a lot of Debian developer tools. (sbuild, reprepro, etc. . .)

• *linuxembedded.fr*

Blog and contest involvement

- Blog author.
- Part of Linuxembedded contest (2011 & 2012) organization team.
- Article about mini2440 card bring-up in french magazine : GNU/Linux magazine

• *Cimel*

Aug.2011-Jun.2012

Data acquisition for weather stations

Middleware development for data acquisition server for Cimel weather stations
- Handle various acquisition links (RTC, GSM, 3G, RS232, etc. . .).
- Schedule calls to weather stations.
- Web GUI Interactions.

Feb. 2011 - Aug. 2011

Final year Internship

Openwide Ingénierie (OWI) - Paris 13^{ème}, France

- Embedded Real-time framework project development (RTEL4i)
- Involve in various open-source community. (Contribution to **Buildroot** project).
- Discovery of Xenomai, a Linux open-source real time extension.

Aug. 2009 - Feb. 2010

Engineer Assistant Internship

SmartJog - Core Service - Ivory-Sur-Seine (94)

Samba Plugin (SMB protocol), Django (Python Web framework), Git.

Computer Skills

System	Very good knowledge of GNU/Linux Operating system. Daily user since 2003. Good knowledge on Version Control System. Daily user of Git since 2009. Linux development/integrator on embedded target. Good knowledge of Cross-build environment.
Programming Languages	Good knowledge of C programming language. (Linux User/Kernel space). Good knowledge of Python, GNU Makefile and Posix shell scripts languages. Android application developpement using Google Android SDK. Knowledge of Object oriented programming : C++, Java. Intel x86 and ARM Assembly language.
Security	Good practice with Hash, Cipher and Signature algorithm Daily use of PGP. Attend security conferences and follow daily security news. Good knowledge with Set-Top-Boxes security model and DRM usage.
System Administration	Administrator of my own dedicated server since 2006 (beneth.fr) Good knowledge in System administration and Server set-up for production use-case. Apache2, Nginx, Bind9, OpenSSH, Iptables, PostgreSQL, Samba, Mail server, OpenVPN, etc. . . LXC virtualization.
Network	Good Knowledge of IP protocol (IPv4, IPv6), network routing and firewall Knowledge of Wifi, Bluetooth and GSM technology.

Education

Oct. 2011	Engineer degree in Computer Science UTBM Belfort, France, 3 years Embedded software and mobile software specialization.
Jun. 2008	Intermediate degree of Engineer Technology (DEUTEC) UTBM Belfort, France, 2 years
Jun. 2006	French High-school degree, Brunoy (Essonne, 91), Lycée Talma <i>Specialized in Mathematics, with honors (Mention « Assez-Bien »)</i>

Language

English	Fluent
French	Mother tongue
German	Basic
Spanish	Basic

Hobby

Sport Running, Swimming, Climbing, Juggling

Music Piano

Computer Open source conferences (Fosdem 2014, 2015, 2017, 2018).
Chaos Computer (CCC) Security Conferences (30C3, 31C3, CCC Camp 2015, 32C3, 33C3, 34C3, CCC Camp 2019).