Benoît MAUDUIT

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

Freelance software engineer

Work Experience

Since September 2020	**BSP/Audio pipeline Software Engineer** Devialet - *Paris (75), France* Software engineer around BSP and Audio pipeline integration on Audio product High-end audio product developpment at Devialet Gstreamer integration, Linux kernel (i2c driver), Secureboot, Dolby Audio (Atmos) Audio latency management, Audio pipeline synchronization between product.
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 13ème, 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 13ème, 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 - Ivry-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**
	Specialized in Mathematics, with honors (Mention « Assez-Bien »)

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).