

Thomas Canova | Software Engineer

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FR

Formation

2012	MITx <i>Circuits and Electronics 6.002x</i>	edX/Online
2002—2005	ENSEEIH¹ <i>Major in Computer Networking</i> <i>Electrical Engineering and Automatics Department</i>	Toulouse/France
2000—2002	Pierre de Fermat <i>Preparatory classes in Mathematics and Physics for entrance exams into national engineering schools</i>	Toulouse/France
2000	International High School <i>Equivalent of 'A' levels in Sciences with Honors</i>	Colomiers/France

Professional Experiences

March 2016 to present	LGM Ingénierie Subcontractor for Continental Automotive in Sensors division. <i>Software project leader and team responsible (3 engineers) on NFC product family for Door Handle Sensor for keyless vehicle system.</i> <i>NFC technology, CAN bus, C software developed on whole V-Cycle by following SPICE standard level 2.</i>	Toulouse/France
January 2015 to March 2016	Delta Technologies Sud-Ouest Internal Engineering projects. <i>Study of an architecture based on linux containers (Docker in particular) and its environment (CoreOS, etcd, Kubernetes) applying CCSDS-MO space standard.</i> <i>After-sale customer support for Speech Unit V2 project: speech synthesizer hardware terminal dedicated to supervision systems.</i> <i>Speech Unit V3 - Redesign: development and integration of a bootloader and a linux kernel for a custom ARM9 IMX6 card.</i> <i>Port of a CNES space software (Assembly, C, Ada) from a SPARC Leon3 to an ARM Cortex-R5 platform.</i>	Toulouse/France
October 2005 to December 2014	Delta Technologies Sud-Ouest Subcontractor for Siemens VDO / Continental Automotive in Powertrain division. <i>System Engineer, Software Architect and Function Integrator (embedded software specifications) on many Renault, Nissan or Daimler projects for gasoline, diesel or electrical engine for production launch.</i> <i>Team management in term of technical training, activities review and planning.</i> <i>Developer and in charge of ignition generic function.</i> <i>Many quality trainings (ISO 26262, 16949, 9001) and involvement to CMMI audit.</i> <i>Technical training on engine control and a 3-day-training at IFP.</i> <i>Professional training on English, finance, personal development...</i>	Toulouse/France

¹École Nationale Supérieure d'Électrotechnique, d'Électronique, d'Informatique, d'Hydraulique et des Télécommunications

Training and common use of development tools, configuration management tools (PVCS, MKS), testbenches (DSPACE, LABCAR, CARTS), test tools (INCA, CANalyzer) and customer tools (Diagnostics on CAN bus or Matlab/Simulink specification development).

March 2009 to
December 2015



Delta Technologies Sud-Ouest

Toulouse/France

System Administrator for the company.

Website migration to SPIP and design reworking.

Network topology redesign and flow control definition.

Server migration from Windows NT4 to Linux Server (Samba, NFS, LDAP...)

Database migration from MS-SQL to MySQL.

Web services deployment (Mediawiki, GLPI, Nagios, Bugzilla, SVN, ERP, CRM, Trac, Web2py.)

January to
September 2005



Siemens VDO Automotive

Newport News,VA/USA

End of scholarship internship in Powertrain Gasoline Systems.

Software development in C of a diagnostic tool communicating on CAN bus.

Training "Diagnosis on CAN" in Detroit by Dearborn Group Technology.

June to
August 2004



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Toulouse/France

Unitest Development on ETACS project for A380 Airbus in order to respect DO-178B standard.

30,000 C lines tested in Unix environment with IBM Real Time Testware.

2003—2015



Personal achievements: Setting of a private network

Local services (IDS, Supervision, VPN, DNS, DHCP, NTP, SSH, mail, DLNA...),

Web services (Wordpress, Owncloud, TinyRSS, GTD, Ampache...), light virtualization based architecture with Linux Containers.

June to
August 2003
2002—2005

Burger King

Brighton/England

Crew member

BF7: Savate Boxing Club

Toulouse/France

Founder, President, Treasurer and club member

2002—2003



N7-Consulting

Toulouse/France

Vice-President of an ENSEEIHT project management society working for external company

Languages

English: fluent

10 years in school, one 3-month stay and another one for one week in England and an 8-month internship in the USA.

Score of 830 at TOEIC

German: intermediate

9 years at school and a 2-week stay in Germany.

70 hours of professional training in 2006.

Computer Science skills

Operating Systems: Linux (Mandrake/Mandriva, Debian, Red Hat and their forks), Unix, Dos and Windows 3.1/95/98/.. /XP/7/10

Languages: C, Ada, ARM Assembly, Java, Shell, Python, (My)SQL, Html, CSS, JS, PHP and L^AT_EX

Software: Current use of most of Microsoft Software
Linux Developing tools suite (gcc, makefile, gdb...) and configuration management (MKS, svn, git, mercurial).

Worksuites for V&V: MATLAB, DSPACE, LABCAR, CARTS, INCA, CANoe

Tools: LXC, Docker, Fabric, VMWare, VirtualBox

Frameworks : Visual Studio, Web2py, IAR, Eclipse

Normes et standards : MISRA-C
OBD/OBD2, GMLAN, Keyword2000, UDS
OSI, NFC
CMMI, SPICE, ISO9001
V-Cycle, DevOps, Scrum, Agile, Kanban
DO-178B, CCSDS-MO
ISO26262, VDA4

Activities

Fond of Computer Science in general and Free Software in particular.

Sports: golf, tennis, running, fitness, cycling and badminton

Cinema, reading, drums, gaming, DIY