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- french,native tongue
- English, moderate

Abstract

Senior software developer. From the operating system to user interfaces, designing both software and hardware architectures.masters skills such as programming languages, libraries and platforms.

Work experience

2018 - now

Linux technical authority, Airbus Defence & Space,

Toulouse

yocto/partition ★★★★★
 shell/script ★★★★★
 Linux/drivers ★★★★★
 GCC/GDB ★★★★★
 toolchains ★★★★★
 git ★★★★★
 Architecture ★★★★★
 C/C++ ★★★★★

Groupe SII, ADS since 2020

Designing Linux embedded softwares (C/C++), ARM/Intel/SOC, scripting(*sh/bash*), toolchains (*GCC/CMake/Makefile*), analysis (*GDB/perf/trace/ltng/Vtune*).

Kernel development, network driver, MTD, bloc, filesystems, DRM/DPU, netlink interfaces.

Patch to improve performances, cross compilation, boot delays.

Designing full system (Yocto), diskless or single installer:*ramFS,NFS,EFI*.

Software developer Design Architect and technical lead in the Linux team

2017 - 2018

Software designer, Continental Digital Service, Smart Car/City

Toulouse

C/C++ ★★★★★
 Linux ★★★★★
 GCC/GDB ★★★★★
 CMake ★★★★★
 shell ★★★★★

Groupe SII

Designing Linux embedded softwares (C/C++), scripting(*sh/bash*), toolchains (*GCC/CMake/Makefile*), debugging (*GDB/Valgrind*).

2011 - 2017

Software designer, G2Metric, Control and analysis measurements tools

Toulouse

WSP ★★★★★
 C/C++ ★★★★★
 QT ★★★★★
 Win32 ★★★★★
 LaTeX ★★★★★
 lua ★★★★★

Designing measurement systems, from libraries (C/C++), graphical interfaces(*WSP/QT*), scripting (*lua/tcl*), to data provider.

- Wrote *OPC* client and server services, mainly for the company's **Pilot3D** software.
- Wrote devices drivers, camera and lighting controllers, for the company's image processing software **Lynx**.

2009 - 2011

Consultant, Areva, A350 pre-assembly jigs and tools

Toulouse

WSP ★★★★★
 OPC ★★★★★

Provide advisory service to help companies to build an harmonized solution for the pre-assembly jig and tools project.

- Analyse client's needs, avoid technical issues, provide integrated solution for each plants located at *Nordenham, Hamburg* and *StNazaire*.
- Design mock-up and interfaces on top of *Wonderware system platform*.

2006-2009

Software designer, GOSS international, press systems

Nantes

C ★★★★★
 Codesys ★★★★★
 TCP,UDP/IP ★★★★★
 RT-Linux,VXWorks ★★★★★
 PID ★★★★★

Design, configure and maintain automation systems for printing machines, programing on top of multiples ports of Codesys and axis controllers.

- Wrote a driver to improve communications between a bunch of controllers and HMI systems(*Arcnet, IP, bus*).
- Commissioning around the world.

Work experience, PLC

2002-2006

Field Technician, Keops-Automation, system integration

Nantes

C/C++ ★★★★★
 PL7-2/3/Pro ★★★★★
 Omron ★★★★★
 Panorama ★★★
 Oracle ★★★
 CVI ★★★
 MFC ★★★

Arcante (2002-2003)

Design and intergration of automated systems (PLCs, HMIs, databases and reporting solutions).

- Development of communication drivers via Ethernet and serial RS232 cards, reporting and alarms tools, command line interpreters and multiple libraries (*Modbus,TCP,DDE*).
- Build IP camera network and recording server *CAMTRACE for FreeBSD*.
- Build one game and its cabinet (*SDL*).

1999-2002

Field Technician, Snef Redon Dalmon,

Rambouillet

Intouch ★★★★★
 PL7-3 ★★★★★
 VBA ★★★

Development of automated systems from conception to implementation at the field level. Experience with several PLC and HMI solutions.

1994-1999

Electro/Mechanical Maintenance Technician, Lyonnaise des eaux,

Dreux

PL7-2/3 ★★★
 Electromécanique ★★★
 Topkapi ★★★
 WIT ★★★

Multi skilled maintenance engineer.Repair and maintain all production machinery and equipment in water treatment plants.PLC program set up and maintenance.

Education

- Brest, 1992: *Associate Degree in electric engieniering.*
- Guingamp, 1990: *C- High School Diploma.*

Skills

- Writing an publishing documents in french or/and English
- computing:

	level		projects
languages	★★★★	C	>50
	★★★★	C++	>50
	★★★★	Visual Basic and VBA	>20
	★★★★	PLC programming LD/FBD/ST/Grafcet	>50
	★★★★	TEX	
	★★★	Assembly ARMV7, AARCH64	≈10
	★★	Assembly 68HC11, 68000, Z80	≈10
libraries	★★★★	C-Shell bash lua python	
	★★★★	QT	>20
	★★★★	Glib2	>20
	★★★★	POSIX	>20
	★★★★	Boost	>30
	★★★★	API Win32	>20
	★★★★	Dot Net	
System	★★	MFC	≈10
	★★	SDL	5
	★★★★	Microsoft Windows (XP to 7)	
	★★★★	FreeBSD(4 to13)	
IDE	★★★★	Linux(debian, gentoo,Arch)	
	★★★★★	vim	
	★★★★	Microsoft Visual studio (6 to 12)	
PLC (IDE)	★★★★	LabWindows	
	★★★	eclipse	
	★★★★	Schneider Télémécanique (PL72 to PL7 pro)	>20
HMI	★★★★	Omron (SysWin/CX-Programmer)	≈10
	★★★★	Intouch	>20
	★★★★	Wondeware system platform(3.1 à 3.6)	>20
	★★★★	Vijeo Citect 7.x	5

Misc

- Driver licence (1990)
- practices Karate, black belt
- Following the *FreeBSD* project since branch 4
- Following the *Linux* kernel development
- Writer for the website *diablotins.org* then *wiki.fug-fr.org*; a wiki that hosted tips and howto's for *FreeBSD* users
- Contributor on the website *linuxfr.org*
- Maintain and install server (Mail, Diaspora*, Matrix, Cloud, sftp, static pages, poudriere, VM) on top of *FreeBSD*.
- this document was released with the help of TEX