

Xavier Parizet

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Manager

Work experience

CBTC On-board development manager

Hitachi Rail Systems France

09/2023 – nowadays

CBTC On-board development (since 18 months)

- Lead of CBTC generic product on-board development (4 work packages, 16 engineers)
- Planning, coordination and development (EN 50128:2011)
- Coordination with other subsystems and hardware
- Responsible of software technical specification and roadmap execution
- Feedback analysis and resolution
- Analysis of project needs and change request drafting

CBTC Test & Commissioning Engineer

Hitachi Rail STS SpA – sucursal de Peru

07/2021 – 06/2022

On-site CBTC Test & Commissioning (1 year)

- Lead of RS characterization with RS supplier (Hitachi Rail Italy)
 - Tuning on-board CBTC
 - Drive RS supplier software modifications for performance purpose
- Testing of Lima Metro Line 2 at various levels:
 - CBTC level (integration between CBTC on-board and ground subsystems)
 - ATC level (integration between ATS, CBTC and Interlocking subsystems)
 - System level (integration between ATC, SCADA and power supply)
- Provide support to test engineers
- Realization of FAT catalog
- Automatic train driving expertise

CBTC On-board Software Engineer
Hitachi Rail STS France

12/2017 – 09/2023

CBTC On-board software management (4 years, including 1 year remote)

- Lead of ATO software development team (5 engineers)
- Planning, coordination and documentation (EN 50128 SSIL2)
- Software quality and process improvements
- Automatic train driving expertise
- Support to site testing (Ankara, Riyad, Brussels, Copenhagen, Lima)



CBTC On-board software development (1 year 9 months)

- ATO component development and maintenance
- Automatic train driving feedback analysis and resolution
- Automatic train driving algorithms improvements
- Continuous integration and delivery set-up (Gitlab, Docker)
- Non-regression black-box and modular testing
- On-site testing for commissioning (Copenhagen, Brussels)

Software developer

Davidson Consulting for Carestream Dental

06/2016 – 12/2017

Python software development (1 year 6 months)

- Web platform for imagery data exchange for dental institutes
- Migration from Python 2 to Python 3
- Software development and maintenance (Python/Apache/WSGI/Ubuntu/Docker)
- Software testing and validation



CBTC System Engineer
Ansaldo STS France

02/2013 – 06/2016

CBTC System feedback management

- Interface between system, development and testing teams
- Feedback analysis, coordination and follow-ups of various CBTC sub-systems
 - On-board, Zone Controller, Inter-Locking, ATS
- System restrictions and limitations management
- Coordination of system anomalies resolution
- Inter-team conflicts management and resolution
- On-site testing (Stockholm, Zhengzhou, Hangzhou)



Software tools maintenance

- Performances improvements of simulation middleware (Erlang/C/C++/Python)
- Simulation platform migration from RHEL5 to RHEL7

CBTC On-Board integrator Evosys for Ansaldo STS France

11/2010 – 02/2013

CBTC On-Board integration (2 years 9 months)

- Integration of software components (C/C++/SCADE/Ada'95, CVS, Python)
- Functional and interface testing of integrated components (Python)
- Equipment integration with hardware (ColdFire, DIVA platform)
- Non-regression tests campaigns (Python)
- On-board equipment delivery (version sheet, packaging)
- Support to testing teams (system integration, equipment validation)
- Site testing in China for ATO-related functions (Chengdu LI)



Air Traffic Control Integrator Evosys for Thales Air System

04/2008 – 11/2010

System Integrator in Croatia (1 year 3 months)

- Software support and maintenance on-site
- Analysis of anomalies from the field (Ada'83, Gdb, Unix)
- Test platform maintenance (upgrade and testing)
- Live commissioning of system upgrade

Software development and integration (9 months)

- Air traffic control software development (Ada'83, Unix, CVS)
- Integration of traffic control software on site



Software development for Netherlands Air Force (internship, 6 months)

- C/Ada'83 Software migration from Data General / Unix AOS-VS to PC Linux Intel x86
- Software library design and development to manage communication protocol over X.25
- Software validation and commissioning on-site

Skills and qualifications

Realtime and embedded architectures

- ColdFire, ARM, DIVA, VHDL

Programming and modeling

- Ada'95, C/C++, Java, SCADE
- PHP, JavaScript, XML, XSL, XPath, React, Django
- Shell, Python

System administration

- Linux web and mail servers administration (Gentoo, Ubuntu)
- Gitlab management
- Virtualizations software (VMWare, Xen, Docker, KVM, Qemu)
- Router and switch management (Cisco, TCP, UDP, IPv4/v6, ARP, DHCP)

Development environment

- Vim, Git, Linux Red Hat, CVS, SCons, GNU Compiler and Debugger

Process

- V-Cycle, Agile Scrum, EN 50128 2011

Education and training

Master's Degree in Computer Sciences – Distributed Systems and Applications – 2008

Languages French (native), English (fluent), Spanish (fluent)

Hobbies Jogging, French Red Cross volunteer (first aid), Self-employer (web development and hosting)