

Jeremie Despringre

Energetic software engineer with 12 years of aerospace experience

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[Website - Link](#)

Relevant Experience

Software Lead Engineer - **Safran Cabin** - 2016 – Present

- Built software application for aerospace products written in C. I released around 10 flying software on six different product lines from level E to level C.
- Developed open sources tools and solutions to test hardware software integration of products in python.
- Led a team of three engineers and managed suppliers for outsourced control electronics.
- Reduced operational costs by half with existing and new suppliers.
- Analyzed and solved hardware/software problems with existing product lines. Improved PID temperature control and reduced power consumption on existing products by implementing variable speeds control algorithms for our air chiller.
- Participated to hiring process and drove business decisions for software department, prepared yearly budget costs and needs.
- Represents SAFRAN as a Member of the international SAE ARINC812 Committee (Aircraft communication standard) since 2018
- Assumed interim functions of design assurance coordinator for all our departments for Airbus during the engineering transfer of our activities to Thailand and Germany. I was mostly reviewing and approving all design changes
- Designed various control electronics and software on microcontrollers Arm cortex m0, m4 , Infineon XE167.
- Deployed and built a configuration management system and processes based on Codebeamer and GIT for our business.

Software Engineer – **Zodiac Aerospace (Germany)** – 2015 -2016

- Provided on-site engineering for Airbus at the FIB test rig.
- Managed software integrations issues with 3 engineering teams (France, Germany, USA). Performed IP transfer between Zodiac Germany and Zodiac USA.
- Participated to verification of 5 products for the A350 programs (ovens, coffees maker, fridge.)
- Developed python QT application to parse and simulate CAN live traffic data for A350 systems.

Software engineer - **Zodiac Aerospace (France)** -2012-2015

- Developed & designed Linux scripts, python applications to test all hardware connection for aircraft screens. I collaborated and updated Linux applications as part of a team of 20-30+ software engineers. One of the applications is used for a production test bench testing up to 32 IFE screens, another retrieve data from 500 screens.
- Contributed extensively to a Linux custom live DEBIAN operating system loaded in RAM from a USB flash drive to operate production laptop
- Integrated and developed a BITE (Built-in-test) application in C++ for an embedded camera on A380
- Developed firmware for a fiber optic switch with uCOS II RTOS on an MPC55XX

Software developer - **ABACOM Informatique (France)** - 2008-2011

- Maintained and updated an existing freight transport software in DELPHI for a small company
- Maintained, supported and deployed MS-SQL database for customers
- Architected and developed an internal software network to exchange goods for 30 customers
- Developed a small tracking website in PHP - HTML to follow tracking of goods.

Electronic Technician - National Center for Scientific research (France) - 2007

- Created a small application to control Texas instrument camera on LabVIEW
- Collaborated on the design of electronics boards to control laser for research purposes

Skills

Programming languages:

C, C++, Python, Javascript, HTML, Delphi, SQL.

OS & RTOS:

Linux, Windows, Debian, Ubuntu, uCOS II, FreeRTOS , MBed.

Compiler & Framerworks:

Tasking, gcc, C166, Code composer studio, Atollic Truестudio, Eclipse, QT, GTK, Django

Tools & Platform

GIT, SVN, Codebeamer, Jenkins, Redmine, DOORS, VirtualBox, QEMU

BSP - Hardware Knowledge

CAN, SPI, I2C, UART, RS232, FPGA.

Microcontrollers:

XE167FM, STM32F0, STM32F429, MPC55XX

Education

PARIS INGESUP

Master in computer science - 2011

Cachan Institute of Technology

Bachelor in Electronics - 2007

Languages

French (Fluent)
English (Fluent)