

EMBEDDED SOFT & HARD DEV

QA & SDET

ELECTRONIC

JEROME GALAN

 Bordeaux (France)
 jerome.galan@gmail.com
 +33 6 76 07 18 05



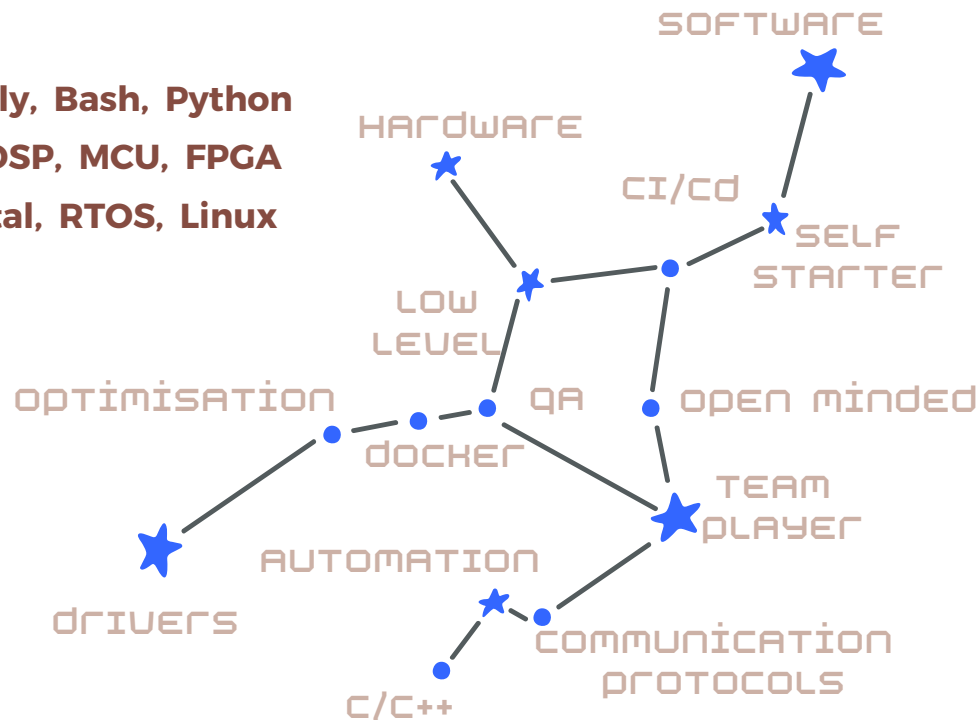
46 years old, passionate about **space** & high **technologies** since my childhood, I'm very excited to apply for a job in the new space industry.

"A day without learning and have fun is a day lost".

I am confident in my ability to adapt to any new situation.

SKILLS

- Specialist in RT & Critical **Embedded Software**
- Specialist in **SDET, QA, IVV**
- Languages: **C, C++, Assembly, Bash, Python**
- Many experiences on **MPU, DSP, MCU, FPGA**
- Operating systems: **bare metal, RTOS, Linux**



THALES

since 2023

LUOS

2021 - 2022

THALES

2010 - 2021

ALYOTECH

2006 - 2010

EDUCATION

Master
(Université Paris 11)
Electronics &
Signal processing

Bachelor
(EFREI Bordeaux)
Embedded systems &
Radio communications

MY ACHIEVEMENTS

More details here:
<https://aquarust.github.io>



LANGUAGES

French
(native)

English
(fluent)

Work experience on page 2

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Thales - Software & FPGA 2023-2024

Technical leader of an avionic multi bus testing module

- Define the product policy, the **software and hardware architecture** and help for the bids.
- Communication with several **avionics protocols** (arinc 429, AFDX, military custom protocols).
- Develop the **low level (communication protocols, linux drivers, FPGA)** and the middleware software in **C and Python** through **RS-422, SPI, I2C, CAN, PCIe, GPIOs**.

Luos - SDET/QA 2021-2022

Responsible of the Luos QA process and of the end to end testing strategy.

- **Automate CI/CD** pipeline with **Github Actions** : compilation, test covering, unit tests, automatic tests on a hardware benchmark, logs saving. Verify the process is respected, upload the release to the registry & update the lib changelog. Assist the developpers for test quality & unit testing.
- Specify, develop and build a **testing benchmark** with several MCUs (Arduinos, STM32, ...). Script to **auto flash** the MCUs with various scenarii binaries, auto generate the network. Create QA PC docker with nginx, **Rest API** to easily **access to the hardware from anywhere**.

Thales - Software & SDET/QA 2010 - 2020

- Build the **CI process** for a whole Navy secured communication system: test of the **REST API** with Selenium, Robot Framework **bash** & python. **BDD** process. Auto generation of test documentation and results.
- **QA** for satellite communication systems: fonctionnal, performance, endurance tests. **Automatic tools** development. Test with **Python** and groovy with **Jenkins** environment. Test & Integration of the hardware in the Rafale airplane with the system team.
- OFDM communication protocol. Software development **C/C++** on a **RTOS** (ucOS II). Validation in real environment.
- Drivers developpement **C/C++** & **Assembly** and unit tests on a **DSP C6x** for a satellite system. Responsible of the communication protocol between a DSP / FPGA & GPP.
- **Team leader** of the vocoder software embedded team for a HF product, and test and development (**C/C++/Python**) on a DSP C54.
- Software development for a communication satellite in **C** with a DSP C54. **Test** the system and **integration** with the FPGA.

Alyotech - Software & Electronics 2006 - 2010

- Analogic & Digital **electronic** board **conception**.
- Automatic open/close doors system for Paris Metro: high critical security **Firmware** on a TI **MCU** in **C** and design of the **analogic** system.
- **FPGA** conception & VHDL for multibus boards (PCI, serials, USB, CAN, Ethernet ...). Design of the boards with Orcad.
- Surgical assistance: **RT software (C & assembly)** for ATmega & MSP-430.

HOBBIES

- Astronomy, astrophotography
- Fencing / Chess
- Video games (KSP, Survival Mars...)
- Science fiction
- Sport (Lightsaber, boxing)
- Piano, Guitar, Ocarina...