EMBEDDED SOFT & HARD DEV

QA & SDET

ELECTRONIC

JEROME GALAN

Bordeaux (France)

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+33 6 76 07 18 05

Passionate about high technologies,
I convert technical obstacles into **robust & reliable software**,
with proven **CI/CD** and **test automation** expertise.

"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**
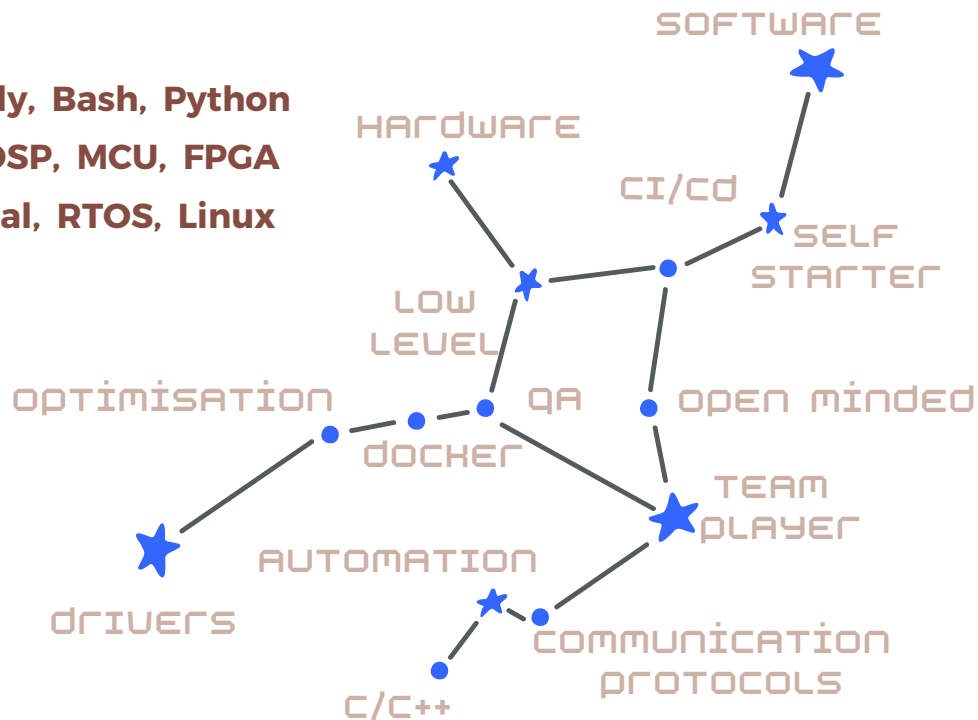- Operating systems: **bare metal, RTOS, Linux**

THALES	since 2023
LUOS	2021 - 2022
THALES	2010 - 2021
ALYOTECH	2006 - 2010

SOFTWARE

HARDWARE

CI/CD

SELF STARTER

LOW LEVEL

OPTIMISATION

QA

OPEN MINDED

DOCKER

TEAM PLAYER

AUTOMATION

DRIVERS

COMMUNICATION PROTOCOLS

C/C++

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)

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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: functionnal, 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 devloppement **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...