



JEROME GALAN

EMBEDDED SOFT & HARD DEV ELECTRONICS QA & SDET

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

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ABOUT ME

44 years old,

Geek and passionate about technologies since my childhood. My credo is to develop and upgrade my skills every day.

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

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

Team player

Open minded

Autonomous

Communicative

LANGUAGES

- French - Native
- English - Fluent

MY HOBBIES

- Piano, Guitar, Ocarina, Harmonica
- Fencing, Lightsaber
- Astronomy
- Discover new techs

EDUCATION

Master - Université Paris 11

*Electronics &
Signal processing*

Bachelor

*Embedded Systems &
Radio communications*

SKILLS

- Specialist in real time / critical **embedded software**
- Specialist in **SDET & QA** (*CI/CD - Automation - Tests*)
- Languages (*C/C++ - Asm - Bash - Python & RUST in progress*)
- **MCU** (*TI - ST - Microchip - Atmel - Arduino - DSP*)

WORK EXPERIENCE

Luos - SDET/QA SINCE 2020

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. Develop a QA PC docker with nginx to and **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++/Pyhon) 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.