

Jordan Loos

Senior C++ / Qt / Embedded Software Engineer

Liège, Belgium • Jordan.loos@jortech.be • +32 472 71 92 33 • www.jortech.be

11 YEARS OF EXPERIENCE | FREELANCE

PROFESSIONAL SUMMARY

Senior Software Engineer with 11 years of experience in C++, Qt and embedded C, delivering software for embedded and industrial systems. Strong expertise in graphical interfaces, software architecture, backend/frontend integration, and full-cycle development from requirements and design to integration, validation and documentation. Currently operating as a freelance consultant and looking for a new opportunity.

CORE SKILLS

Programming: C++, Qt, QML, Embedded C, Python, Bash, JavaScript, SQL, XML, HTML, CSS

Systems: Embedded Linux, FreeRTOS, Buildroot and Yocto

Engineering: Requirements, software architecture, API design, development, unit testing, integration, documentation, coverage analysis

Tools: Git, CMake, GCC, Qt Creator, Figma, Jira, VS Code, Google Test, CGreen, gcov/lcov, Doxygen, Eclipse, Cygwin

Hardware: Embedded touchscreen systems, STM, PIC, NXP, and ARM

Protocols: CAN, UART, SPI, I2C, TCP/IP, UDP

PROFESSIONAL EXPERIENCE

Frontend Qt/C++ & Embedded Software Engineer | **CE+T Power** | Jan 2021 – Feb 2026 (5 y. 1 m.)

- Developed a Qt/C++ graphical interface on embedded Linux to monitor and control energy systems used in critical environments.
- Designed, developed and maintained the HMI software for four touch screen sizes.
- Developed the API layer between the C# backend and the C++ frontend, enabling reliable communication between system logic and the user interface.
- Implemented control and regulation algorithms in embedded C to ensure Grid Code Compliance for systems connected to the electrical grid.
- Built a Python interface for log analysis to support diagnostics and technical investigation.
- Led the design of the software architecture for a new project and worked on task organization, configuration, database management, and logging systems in a FreeRTOS environment using C++.
- Set up the unit testing environment and coverage analysis workflow and delivered internal training on testing practices and software quality.

Frontend Qt/C++ & Emb. Software Engineer Consultant | **SABCA Drone** | Oct 2018 – Dec 2020 (2 y. 3 m.)

- Developed C plugins for drone autopilot and ground control station software in collaboration with system and safety engineers.
- Implemented the Qt/C++ video and data interface between the datalink and the ground control station.
- Set up the software unit testing and coverage system for the department.
- Developed a drone simulator in C++ with Gazebo and created Python tools for monitoring, stress testing, and simulation.

Embedded Software Engineer Consultant | FN Herstal | Jul 2016 – Sep 2017 (1 y. 3 m.)

- Worked on remote weapon station software in a Linux and C environment under strict military requirements.
- Contributed to features, bug fixing, unit and integration testing, acceptance test procedures, and technical documentation for the entire weapon system.
- Developed software used to analyze and record weapon usage conditions, and authored requirements before implementation on a simulator project.
- Participated in a project to simulate LRUs (camera, actuator, firing system, etc.). Wrote high, low and architectural requirements and developed the software after requirements approval.

Android Application Engineer Consultant | Akkodis | Mar 2016 – Jun 2016 (4 m.)

- Delivered a medical Android application from requirements and wireframes to implementation and presentation to business stakeholders.

Frontend Qt/C++ & Emb. Software Engineer Consultant | John Cockerill | May 2014 – Mar 2016 (1 y. 10 m.)

- Worked on a Video Matrix Controller embedded in tank turrets to control the vehicle video feeds.
- Developed multithreaded Qt/C++ video matrix controller applications, inter-process communication components, and a Qt interface for built-in tests and system status display.
- Contributed to follow-up worldwide supplier and engineering verification activities on the Control Display Unit project.

EDUCATION

- Master and Bachelor in Industrial Electronic Engineering — ISIL / Rennequin Sualem, Liège, Belgium — 2008 to 2013
- Linux Professional Institute training (LPI 101) — AgoraTic College, Paris — Jul 2015
- English training — Berlitz / Telelangue — 2015
- Intensive English lessons — Malvern House, Dublin — Dec 2013

LANGUAGE

- French Native.
- English Fluent.
- Spanish Fluent.
- Portuguese Basic working knowledge.

ADDITIONAL VALUE

- Strong experience in testing, software quality, and technical documentation.
- Comfortable with the full V-cycle in structured industrial environments.
- Used to remote collaboration and cross-functional technical teams.
- Available for long-term freelance assignments, preferably on a 4/5 schedule.

HOBBIES

- Motorcycle, Latin dance, travelling, sport and economy