

# Johan, Axel REMILIEN

Madrid - Community of Madrid - Spain

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constexpr std::pair<std::string\_view, std::string\_view> sr\_sde{"C++", "Qt"};

## Professional Summary

My journey in the software industry began in 2014, and since then I've continually honed my expertise, keeping up to date with the latest technologies and best practices.

Currently freelancing from Madrid, Spain, I'm looking forward to leveraging and enriching my skills and experience by taking on new challenges all over Europe.

My strong adaptability and commitment to delivering high-quality solutions make me an asset to your projects.

## Education

**ESIGELEC**

General Engineering degree (major: Embedded Systems)

**Rouen, Seine-Maritime - Normandy - France**

2011 - 2014

## Work Experience

**Senior Software Development Engineer**

January 2024 - April 2024, 4 months

**Eurocontrol, Freelance**

Brussels - Brussels Region - Belgium, Remote

- Enhanced multithreaded ASTERIX message-processing library by integrating modern C++ design principles.
- Measure and expand unit test coverage
- Improve performance and mitigate the risk of memory leaks

**Skills:** Bash/sh, Bitbucket, C++, clang-format, clang-tidy, CMake, Code coverage, Cppcheck, Design Patterns, Doxygen, Gcov, GoogleTest, Lcov, LLVM, Linux, macOS, Unit testing, C++ Standard Template Library (STL)

**Senior Software Development Engineer**

September 2022 - February 2023, 6 months

**Dirac, Freelance**

Uppsala - Uppsala County - Sweden, Remote

- Development aimed at transitioning the tool from an expert-centric usage to a more consumer-oriented interface.
- Introduce the first unit tests (GoogleTest).
- Migration from Qt 5.15 LTS to Qt 6.2 LTS on CMake, C++, and QML parts.

**Skills:** Android, Bamboo, Bash/sh, Bitbucket, C++, CMake, clang-format, GoogleTest, iOS, JavaScript, macOS, QML, Qt5, Qt6, Unit testing, Windows

**Senior Software Development Engineer**

July 2022 - September 2022, 3 months

**Televic Healthcare, Freelance**

Izegem - Flemish Region - Belgium, Remote

- Simplifying the patient assistance interface for easier use by those with reduced capabilities.

**Skills:** C++, Embedded Systems, Qt Designer, Qt Widgets, Qt 5, Unix

**Senior Software Development Engineer**

December 2020 - March 2022, 1 year 4 months

**Pix4D, Full-time**

Madrid - Community of Madrid - Spain, Hybrid

- Development of a drone-flight-planning mobile application Pix4Dscan.

**Skills:** Android, Bash/sh, C++, C, CMake, Concourse, Confluence, GitHub, Google Test, iOS, JIRA, JSON, Kotlin, Linux, macOS, QML/JS, Qt Test, Qt 5, Scrum, Swift, Unit testing, XML

**Senior Software Development Engineer**

June 2020 - July 2020, 2 months

**Digital Essence, Freelance**

Montreuil, Seine-Saint-Denis - Île-de-France - France, Hybrid

- Development and integration of a control panel in a projection mapping software HeavyM.

**Skills:** Agile, C++, QML/JS, Qt 5, Qt Widgets

**Software Development Engineer**

November 2018 - May 2020, 1 year 7 months

**Parrot Faurecia Automotive, Full-time**

Paris - Île-de-France - France, Hybrid

- Development of audio tuning tools for music and speech quality enhancement of car sound systems.  
*Skills: Agile, Bash/sh, C++, C, Confluence, Design Patterns Gerrit, Git, HTML, JIRA, Linux, MXE, QML/JS, Qt 5, TCP/IP, UI, UX, Windows, XML*

### Software Development Engineer

August 2018 - November 2018, 4 months

**PSA via Segula Technologies, Direct Contract**

Vélizy-Villacoublay, Yvelines - Île-de-France - France, On-site

- Development of a tablet application controlling a rolling autonomous-driving simulation, to study human reactions to vehicle interior configuration changes between autonomous and user driving phases.
- Development of a CAN-like communication protocol similar using TCP/IP sockets, allowing different HMI parts to be synchronized.

*Skills: Agile, Bash/sh, C++, CAN, Git, QML/JS, Qt 5, TCP/IP, Unix, Windows*

### Embedded Systems Engineer

May 2018 - August 2018, 4 months

**Continental via Ausy, Direct Contract**

Rambouillet, Yvelines - Île-de-France - France, On-site

- Specification, development, and validation of a tell-tales system connected to CAN.

*Skills: C, CAN, Enterprise Architect, Green Hills MULTI, IAR, Renesas RH850/F1L(176 pins), V-Model*

### Systems Integrator

September 2017 - April 2018, 8 months

**Visteon via Ausy, Direct Contract**

Cergy, Val-d'Oise - Île-de-France - France, On-site

- Hardware and software integration of level-3 autonomous driving equipment in a VW Golf GTI.
- Qt/QML expertise for Kanzi-replacement.

*Skills: Bash/sh, C++, CommonAPI, Franca, Linux, NVIDIA Drive<sup>TM</sup>PX2, QML/JS, Qt, VSOME/IP*

### Software Development Engineer

March 2016 - June 2017, 1 year 4 months

**Magneti Marelli via Ausy, Direct Contract**

Châtellerault, Vienne - Nouvelle Aquitaine - France, On-site

- Development of an objects library and a layout tool for a responsive infotainment system proof of concept.
- Development of equipment demonstrators for Faurecia presented at The Mondial de l'Auto (2 months).
- Prototyping the evolution of the HMI of the Alfa Romeo Giulia on a bench in Modena, Italy (2 months).

*Skills: Agile, Arduino, C++, Git, JSON, qmake, QML/JS, Qt 5, Windows*

### Software Development Engineer

June 2014 - February 2016, 1 year 9 months

**PSA via Alten, Direct Contract**

Vélizy-Villacoublay, Yvelines - Île-de-France - France, On-site

- Development of a QML plugin for encapsulating CAN frames in TCP packets.
- Development of Citroën's concept car HMI, the AirCross.
- Taskforce for the delivery of the series life GUI of Peugeot, Citroën, and DS.
- Development of part of a DS' concept car GUI, the E-Tense.

*Skills: Agile, Bash/sh, Batch, C++, CAN, Confluence, git, JIRA, Linux, Photoshop, photoshop-qmlexporter, QML/JS, Qt 5, Windows, X11*

## Skills

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**Operating Systems**|**Targets:** Android, iOS, Linux, macOS, WebAssembly, WebOS, Windows

**Programming Languages:** Bash/sh, C++, C, Java, JavaScript, Objective-C++, Python, QML, SQL, YAML

**Build Systems Generators:** CMake, qmake

**IDE:** Android Studio, Qt Creator, Qt Designer, Qt Linguist, Visual Studio Code, Xcode

**DevOps tools:** Bamboo, CocoaPods, Conan, Concourse, Fastlane, GitHub Actions, Google Test, RubyGems, Squish

**Languages:** English: C1, French: native, Martinican Creole: native, Spanish: B1

## Portfolio

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### WordClock++

Open Source application published on Google Play, App Store, and as a Web Application

*Skills: Android, C++, clang-format, CMake, cmake-format, Crowdin, Design Patterns, Emscripten, Fastlane, Firebase, GitHub Actions, Gradle, JS, Java, Localization, macOS, Objective-C++, qmake, QML/JS, Qt 5, RubyGems, SOLID principles, Software Design, UI, UML, UX, Ubuntu, wasm, webOS, Windows, YAML*