Quentin Comte-Gaz
Software and electronic engineer

France

Citizenship: French

Driving license: 🚗 🚜 🏍️ ⛵ 🚲 ▮

Website: https://quentin.comte-gaz.com

Languages

▶ French: Native Speaker

▶ English: Fluent (Worked in Switzerland & Germany speaking English at work for 15 months)

Professional career

2023 – Now: Development Engineer (C#/.Net Framework & SQL)
SERA (GPI) – Chasselay, France - Job

▶ Functional and technical specification of client requirements

▶ Responsible for and continuous improvement of the "ALTESOFT" software suite (ERP & Windows/PWA applications dedicated to the agro-industry, used in numerous international industrial sites for milling and the management of cereals/seeds/animal feed)

▶ Back-end & Front-end development (C#8-11, .Net Framework, Angular, SQL Server, Docker) using Microsoft tools (Azure DevOps, Visual Studio, TFVC)

▶ Software support & technical assistance

2016 – 2023: Development Engineer for Medical Device Production Lines (C++/Qt)
Fresenius Kabi as Médiane Système consultant before 01-2020 then employed by Fresenius Kabi – Grenoble / Brezins, France - Job

▶ Functional and technical specification, creation of test protocols, and management of service providers

▶ Design and deployment of software tools on 6 new production lines, with continuous improvement on 15 existing lines

▶ Responsible for continuous integration (Jenkins, CI/CD) and cybersecurity expert for production lines

▶ Team management as Scrum Master, cross-functional communication

▶ C++/Qt development of communication libraries, user interfaces, plugins, applications, installers, and Python scripts

2016: Embedded Systems Development Engineer (C++/Qt)
Witekio GmbH – Friedberg, Germany - Job

▶ Designed a network communication API for enterprise coffee machines, allowing data transmission and remote configuration (C++11, Qt5.2, Protocol Buffers, Embedded Linux, ARM)

▶ Designed a REST API for controlling a headlamp adjuster from a web application and modified the existing Qt application to better manage result archiving (CivetWeb, QJson for older Qt versions, C++11, Qt4.6.3, PhyCARD-i.MX 6, Embedded Linux)

2015: Development Engineer (C++/Qt)
New Voice International Ltd – Zürich, Switzerland - Job

▶ Developed a cross-platform application (Windows/Linux) in C++/Qt to simplify the use of the existing system. Responsible for the project from design to delivery, significantly enhancing skills in teamwork, quality assurance (unit tests, code review, code style), and development in various contexts (system dependencies, user interfaces). This experience provided extensive learning in project management and development.

2014 – 2015: Developer (C)
Altran Technologies – Vélizy Villacoublay, France – Consultant/Job

▶ Developed (in C) the driver for the JIM-LR connected augmented reality binoculars. Tight delivery deadlines made the project challenging.

2014: Intern – Microkernel Performance for Embedded Systems (C/ASM)
Thales Communication & Security – Gennevilliers, France - Internship

▶ Created secure applications on ARM-A9 (Trust-Zone) in Bare-Metal (+ Drivers)

▶ Designed Posix drivers on PikeOS Hypervisor for ARM-A9

▶ Developed performance measurement tools and presence detection components (caches, processor, etc.) in C/Assembly

2013: Intern – RTOS Integration & Library Creation (C/ASM)
UXP – Seyssinet Pariset, France - Internship

▶ Integrated an RTOS (FreeRTOS) and developed a C library for a calculator (LPC17xx)

Academic background

2011 – 2014: Electronics and Computer Engineer (~MASTER)
ENSEA (National School of Electronics and its Applications) – Embedded Systems Specialization – Cergy-Pontoise, France

2009 – 2011: Preparatory school for Engineering School
PTSI & PT - Grenoble*

Qualifications

- **Project Management & Code & Pipelines:** Docker (+++), GitLab (+++), Azure DevOps (+++), Git/SVN/TFVC (+++), Github/Jira/Confluence/Jenkins (++)
- **Programming Languages: C#** (+++), **C++** (+++), **Flutter** (+++), C (+), Assembly (+), Java (+)
- **Scripts and Web Languages: SQL** MySQL/PostgreSQL/SQL Server (+++), **Python** 2.7+/3+ (+++), Javadoc/Doxygen (+++), Inno Setup (++), Linux Shell (++), HTML5 (+), CSS3 (+), PHP (+), JavaScript (+)
- **Protocols:** UART RS232-RS485 (+++), UDP (+++), MQTT (+++), FTP(s) (+++), Modbus (+++), SSL/TLS (++), CAN (++), I2C (++), SSH (++), TFTP (++), TWAIN (++)
- **Libraries: Qt** C++ (+++), **.NET Framework** (+++), Protocol Buffers (++), STL C++ (++), Boost C++ (+)
- **Web Libraries:** PHP Phalcon (+++), VueJS (++), AngularJS (++), Angular (+), ReactJs (+)
- **Project/Code Management & Pipelines:** GitLab (+++), Azure DevOps (+++), Git/SVN/TFVC (+++), Github/Jira/Confluence/Jenkins (++)
- **Automated Testing:** Google Test (+++), QTest (++)
- **Operating Systems:** Windows (+++), Android (++), Linux (++)

(+++ Very good, ++ Good, + Basic knowledge)

Personal Projects

- Cross-platform applications (Flutter & REST API): https://play.google.com/store/apps/dev?id=7105242373770180771
- Showcase website (HTML / CSS / VueJs): https://funnylabz.com/
- Multiple Python 3+ libraries (Linux monitoring with discord bot, GSM module & Light bulbs management): https://pypi.org/user/QuentinCG/
- And many more open-source projects on my Github https://github.com/QuentinCG (and some school projects: https://quentin.comte-gaz.com/archive.html)

Activities

- Software: Personal server management, private projects
- Sport: Climbing, Tennis, Diving, Swimming