Alessandro **Pezzato**

INDEPENDENT SOFTWARE CONSULTANT ·

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"Learn. Code. Teach. Repeat."

Summary

With 18+ years of **software development** experience and a passion for programming since age 11, I bring extensive expertise. Specializing in C++ since 2007, I consistently deliver high-quality solutions. I offer consulting, training, and software development services in **C**, **C++**, **Rust**, **Linux**, and technologies for **embedded** and IoT systems. Since 2014, I have been working as an **independent software consultant**, taking on various projects. As a **trainer**, I've organized and conducted numerous C++ and Rust **courses**, sharing best practices and methodologies. I am committed to staying up-to-date with the latest industry technologies, ensuring that I can provide the most relevant and valuable guidance to my clients.

Work Experience (as independent consultant)

Qascom S.r.l.   *Bassano del Grappa, Italy*
TRAINER   *2021, 2024*

- Organized a 45 hours C++ course for 20 developers working on GNSS and space cybersecurity systems (2021)
- Organized two 60 hours advanced C++ course for about 13 developers (2024)

Bluewind S.r.l.   *Castelfranco Veneto, Italy*
DEVELOPER, CONSULTANT, TRAINER   *2018 - Present*

- Implemented drivers and firmware for safety critical embedded systems for automotive, marine and industrial products. C, C++, Rust.
- Organized C++ and Rust courses for about ten developers.
- Active member in a working group dedicated to create an open-source peripheral access crate for Infineon microcontrollers. Developed low level Rust drivers for Infineon TC37x microcontrollers.

Fracarro Radioindustrie S.r.l.   *Castelfranco Veneto, Italy*
DEVELOPER, CONSULTAN, TRAINER   *2023 - Present*

- Organized an 80 hours Advanced C++ course for 4 developers.
- Worked on the modernization of a C codebase, converting some parts to C++ and introducing unit tests, CI/CD and static analysis tools.

Fiam Utensili Pneumatici S.p.A.   *Vicenza, Italy*
CONSULTANT   *2023*

- I conducted code reviews in various C and C++ projects (PIC, STM32, Windows) to assess their needs for bug fixes, documentation, and maintainability. To facilitate the smooth transition of a resigning team member, I provided consultancy services to help documentating the code.

Texa S.p.A.   *Monastier, Italy*
DEVELOPER, CONSULTANT, TRAINER   *2014 - 2023*

- Developed C++ communication libraries (both embedded and server side) for an IoT automotive project to handle real-time remote diagnostic data of about 500 thousands vehicles.
- Organized multiple C++ courses between 2015 and 2022, a total of about 150 hours and 40 developers.

Spring Tech Innovations S.r.l.   *Limena, Italy*
DEVELOPER, CONSULTANT   *2022*

- Developed C++ software for an home automation and alarm system. Qt, LVGL, Linux.

Ferrous Systems GmbH   *Berlin, Germany*
DEVELOPER   *2022*

- Developed Rust compiler tests for Ferrocene qualified toolchain.

MERMEC S.p.A.   *Morgano, Italy*
DEVELOPER, CONSULTANT   *2020 - 2022*

- Developed C++ and C# software for surface inspection of steel products.

ASTRA Yacht S.r.l.   *Monfalcone, Italy*
DEVELOPER, CONSULTANT   *2015 - 2022*

- Developed C++ software for sailboat real-time performance analysis. FreeRTOS, Azure RTOS, Linux, Qt.

Salvagnini S.p.A.   *Sarego, Italy*

TRAINER   *2019 - 2020*

- Organized a course on modern C++ and Test Driven Development, for a total of 24 hours and 10 developers.
- Organized a course on Test Driven Development for C and C++, for a total of 24 hours and 10 developers.

Ubilot S.r.l.   *Bassano del Grappa, Italy*

DEVELOPER, CONSULTANT   *2019*

- Developed C++ and C# software. I developed an high-reliability embedded database built on top of a F-RAM module with some kB of storage.

Adatta S.r.l.   *Padova, Italy*

TRAINER   *2018*

- Coached a junior C++ developer.

Carel S.p.A.   *Brugine, Italy*

DEVELOPER, CONSULTANT   *2014 - 2018)*

- Developed C++ software and C Linux drivers for HVAC products. Buildroot, Yocto, Linux.

GM Trading srls   *Borgoricco, Italy*

DEVELOPER   *2014 - 2018*

- Developed (JavaScript) UI of an e-commerce website

Work Experience (employee)

Vimage S.r.l.   *Mirano, Italy*

LEAD SOFTWARE DEVELOPER   *Jul 2007 - Jul 2014*

- Coordinated and mentored the R&D team of up to 5 developers.
- Worked on different projects for museums, stores and events. Most projects involved interactive projections, touchscreens, touchless sensors and computer vision.
- Developed company's core C++ libraries for 2d and 3d games.
- Developed a company Linux distribution based on Gentoo Linux.

Nasch S.r.l.   *Padova, Italy*

WEB DEVELOPER   *Oct 2005 - Apr 2007*

- Developed local companies websites (PHP and JavaScript).
- Developed a web tv platform (Flash and ActionScript 3)

Education

Liceo Scientifico E. Majorana   *Mirano, Italy*

SCIENTIFIC HIGH SCHOOL DIPLOMA WITH A SPECIALIZATION IN THE NATIONAL INFORMATICS PLAN (P.N.I.)   *2001 - 2005*

Università di Padova   *Padua, Italy*

MECHANICAL ENGINEERING (INCOMPLETE)   *2005 - 2006*

Università Ca' Foscari Venezia   *Venice, Italy*

BUSINESS ADMINISTRATION (INCOMPLETE)   *2006 - 2008*

Skills

Programming tools and techniques	Git, gdb, Docker, NeoVim, CLion, TDD, CI, GitLab, GitHub, Agile, Design Patterns
Programming Languages	C++, C, Rust, TypeScript, Python, Haskell, C#, Bash
Languages	Italian, English

Non-profit

CodingGym   *www.coding-gym.org*

TRAINER   *Feb. 2018 - Present*

- Conducted monthly free workshops, in Padova and Castelfranco Veneto, assisting over 100 participants
- Designed exercises covering algorithms, data structures, and problem-solving for monthly workshops

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