

Valerio Azzariti

Software developer & Solopreneur

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I'm **Valerio**, a **Software Engineer and Solopreneur** with over 6 years of experience developing and implementing advanced **automation systems for mobile and industrial machines, web and desktop apps**.

I'm experienced in **C, Codesys, embedded development**, and in **web and desktop applications**.

I have strong skills in **project management, client relations, and software design**, and I'm known for being **reliable, fast-learning, and detail-oriented**.

Through years of hands-on experience, I've built exceptional **problem-solving abilities**.

I'm seeking challenging opportunities to **lead or contribute to technical projects** where I can blend engineering with creative development.

Experience

Solopreneur (TrueSmartTech) (2025 - Present)

Founder and full-stack developer of **TrueSmartTech OÜ**.

I create and launch my own ideas — software, hardware, and full-stack products — and help others move their projects forward.

Through TrueSmartTech, I combine engineering, design, and business thinking to turn concepts into real, working products.

Software developer - Field technician - System designer - Customer support (A-Pro2) (2019 - 2025)

Role Summary

A **multifaceted role** combining **technical expertise, software development, and project management**.

Responsible for the **entire lifecycle of automation projects**, from customer consultation and hardware design to software development, commissioning, and post-delivery support.

Workflow Overview

- Initial Consultation and Information Gathering
 - **Customer Interaction:** Conduct detailed discussions with clients to analyze machine requirements and project goals.
 - **Information Gathering:** Identify missing data or technical details needed to define project specifications.
- Hardware Selection and Electrical Design
 - **Hardware Selection:** Choose appropriate controllers, sensors, displays, and other components to meet functional and cost requirements.
(Experience with IFM, STW, and TTControl controllers.)
 - **Electrical Schematics:** Create simplified schematics and pin assignments using Excel or develop advanced wiring harness diagrams when required.
- Controller Setup and Template Creation
 - **Template Development:** Build controller templates managing all key peripherals and base functionalities to provide a stable and reusable foundation for the project.
- Machine Logic and Automation Development
 - **Logic Design:** Develop automation sequences, control strategies, and interlocks to ensure reliable and efficient machine operation.
 - **User Interface:** Design and implement operator interfaces focused on both usability and visual quality.
- Software Development and Deployment
 - **Debug Version:** Deliver preliminary software versions for internal or customer testing, incorporating real-time feedback.
 - **Final Release:** Prepare and release production-ready software versions for the end customer.
- Technical Assistance and After-Sales Support
 - **Support and Maintenance:** Provide remote or on-site assistance to ensure system reliability and implement updates based on customer feedback.
 - **Continuous Improvement:** Gather insights from field experience to enhance templates, documentation, and future project efficiency.

Jr Software developer for school related program (MOBA) (2018 - 2018)

- Software for testing controller Inputs and outputs and relative test bench harness
- Desktop software made in C# for opening data logger files from PLC controller and converting it in a .csv table
- Software with custom logic for PLC controller

Projects

Web Projects

- **TurboEstimate.com** — AI-powered web application for creating professional quotes and cost estimations in seconds.
- **FastDelivery.dev** — Full-stack boilerplate for building scalable web applications using **AWS Amplify Gen 2**, **Next.js**, and **TailwindCSS**.
- **Lite Metrics (Analytics Tracker)** — Lightweight, privacy-focused analytics tool for tracking visitors, pageviews, and user interactions in real-time.
- **Website Creation** — Development of responsive, SEO-optimized websites and e-commerce platforms for various clients.
- **Multimedia Project for Public Entertainment** — Cloud-based platform for managing and synchronizing audio and video playback across multiple venues.

Desktop Projects

- **TST-Center (Debugging Tool)** — Cross-platform desktop application to **visualize, monitor, and control embedded systems**.
Enables real-time variable tracking, automation scripting, and data logging—eliminating the need for print-based debugging.

Machine Projects

- **Rail-Road Loader Machine** — 2 PLCs, HMI, joysticks, engine, pressure & angle sensors, hydraulic system, load & geometry limiters, and data logging.
- **Forest Loader Machine** — PLC, joystick, and hydraulic system integration.
- **Motor-Pump Machine** — PLC, HMI, engine, gearbox, pressure sensors, and data logging.
- **Drilling Machines** — PLC, HMI, hydraulic system, radio control, pressure sensors, encoder, and data logging.
- **Woodcutter Machine** — PLC, HMI, hydraulic system, joystick control.
- **Solar Panel Cleaning Machine** — PLC, HMI, movement automation, joystick, hydraulic system, ultrasonic sensors, and cameras.
- **Agricultural Fruit Loader** — PLC, movement automation, ultrasonic sensors, hydraulic system.
- **Crane Machine** — PLC, radio control, engine, pressure & angle sensors, load limiter, hydraulic system, electric motors, and data logging.
- **Electric Motor Test Bench** — PLC, HMI, inverters, electric motors, hydraulic system, and automation controls.
- **Special Transport Lifters** — PLC, battery, inverters, electric motors, hydraulic systems, radio control, pressure sensors, and load limiter.

Hardware & Firmware Projects

- **Custom Control Boards** — End-to-end design including schematic, PCB routing, BOM, firmware development, and communication interfaces (**CAN Bus**, **SPI**, **I²C**, **Wireless**).
- **Web-Connected Devices** — Integration with web applications for monitoring and configuration.

Other Projects

- **Libraries** — Internal libraries for **geometry calculations**, **custom communication protocols**, and **control algorithms**.
- **Testing Frameworks** — Automated testing tools for **applications**, **embedded libraries**, and **APIs**.

Education

Technical High School Diploma in Electronics and Telecommunications (2015 - 2019)

Istituto di Istruzione Superiore "Carlo Alberto Dalla Chiesa" Sesto Calende

Skills

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|--------------------------------------|--------------|------------------|---------------------|
| • Project Management | • Figma | • Nodejs | • Qt |
| • Problem Solving | • Codesys | • AI | • Python |
| • Decision Making | • PLC | • React | • CAN Bus |
| • Time Management | • HMI | • VSCode | • esp32 |
| • Windows, MacOS, Linux | • SCADA | • C | • Nextjs |
| • Photo, Audio, Video simple editing | • TIA Portal | • JS/TS | • Tailwind |
| • Git | • Ignition | • CSS | • AWS Amplify gen 2 |
| | • Vercel | • EasyEDA | • Electron |

Hobbies

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|-----------|----------|-----------|
| • Fitness | • Motors | • Music |
| • Tech | • Gaming | • Science |