

DONATO PEPE

Technical Team Lead | Engineering Manager | Industrial Automation Expert *Pieve di Cento (BO), Italy* | +39 328 338 7195 | donato.pepe.it@gmail.com [LinkedIn Profile](#)

EXECUTIVE SUMMARY

Strategic Technical Leader with over 25 years of experience in software architecture and industrial automation. Proven track record in leading digital transformation projects and integrating complex IT/OT systems. Expert in managing mission-critical infrastructures, with a focus on high-performance backend systems (C#, .NET, Dapper) and industrial logic (PLC). Strong ability to align technical roadmaps with business goals, having achieved operational savings of up to €2M/year through algorithmic optimization and process management.

CORE COMPETENCIES

- **Leadership & Management:** Technical Project Management, Team Mentoring, Stakeholder Management, Functional Analysis.
 - **Software Architecture:** Enterprise Web Applications, Microservices (RESTful APIs), High-Performance Data Access (Dapper), Memory Safety (Rust).
 - **Industrial Automation (OT):** PLC Programming (Siemens, Allen Bradley), SCADA Systems, Smart Factory Integration.
 - **Data Strategy:** SQL Server Administration, Failover Clustering, Database Optimization, T-SQL Expertise.
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PROFESSIONAL EXPERIENCE

Technical Team Lead / Senior Architect | *Gruppo Borghi S.p.A.* | Dec 2022 – Present

- **Project Leadership:** Directing the development of enterprise web architectures, coordinating the integration of complex authorization levels and user profiling systems.
- **Architecture Strategy:** Leading the transition to modern microservices and RESTful API structures to ensure system scalability and performance.
- **Workflow Optimization:** Designing automated business processes for procurement and bidding, improving internal operational efficiency.
- **SAP Integration:** Managing cross-functional development involving ABAP and SmartForms for industrial labeling.

Technical Architect & Functional Analyst | *Setting S.p.A.* | Sep 2021 – Dec 2022

- **Software Design:** Led the functional analysis and technical design of high-performance responsive single-page applications.
- **Quality Assurance:** Supervised code quality standards and coordinated the deployment of enterprise-grade software solutions.

Project Lead - Industrial Automation & Software | ArcelorMittal / ILVA | Sep 2004 – Aug 2021

- **Operational Excellence:** Engineered a logistics optimization algorithm (Dijkstra-based) for conveyor systems, reducing transport time by 70% and generating an estimated **€2 Million annual saving**.
 - **Mission-Critical Management:** Responsible for the design and 24/7 maintenance of automation software for heavy industrial plants, ensuring zero-downtime operations.
 - **System Integration (IT/OT):** Orchestrated the communication between high-level monitoring software and low-level PLC automation (Ladder Logic).
 - **Mentorship:** Coordinated technical teams and provided guidance on environmental monitoring systems and industrial precision positioning.
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TECHNICAL SKILLS

- **Languages:** C# (.NET Core/Framework), Rust (Modernizing mission-critical libraries), T-SQL, Java, PHP, ABAP, Python.
 - **Backend & ORM:** Dapper (Performance Lead), ASP.NET MVC/Core, Entity Framework, Spring Boot.
 - **Frontend:** React, Angular, TypeScript, Blazor, Tailwind CSS.
 - **Infrastructure:** Linux/Windows Server Admin, SQL Server Failover Clustering, MongoDB.
 - **Automation:** Siemens & Allen Bradley (Ladder Logic), CNC Systems, 3D Design.
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EDUCATION & CERTIFICATIONS

- **Bachelor's Degree in Information Engineering & Industrial Automation** | *University of Como* (2014)
 - **Cisco Certified Network Associate (CCNA)**
 - **Oracle Certified Professional (Java)**
 - **Siemens Certified Automation Specialist**
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ADDITIONAL INFORMATION

- **Continuous Learning:** Currently migrating personal C# libraries to **Rust** to master memory safety for high-stakes industrial applications.
- **Hobbies:** Restoration of antique mechanical watches (precision engineering mindset), CNC/3D Printing design.
- **Languages:** Italian (Native), **English (Professional Reading & Writing; Working on Speaking Fluency)**.