

Tommaso Vingiano

PROFESSIONAL SUMMARY

Software and System Engineer with experience in designing and delivering complex software systems in industrial and IoT environments. Proven involvement in requirements analysis, system design, and end-to-end delivery of production software, collaborating with stakeholders to translate business needs into technical solutions. Experienced across full-stack development, system integration, and deployment of distributed applications in machine control and automation domains.

CORE SKILLS

- **Software Engineering:** System design, full-stack development, distributed systems
- **Requirements & Delivery:** Requirements analysis, technical specification, end-to-end delivery, solution design
- **Programming Languages:** C#, C++, C, JavaScript, Python, Go
- **Frontend:** Angular, AngularJS, Vue.js, TypeScript
- **Backend & Frameworks:** .NET, REST APIs, service-oriented architectures
- **Industrial & IoT Protocols:** Modbus, OPC UA, MQTT, LoRaWAN, HTTP, TCP/IP
- **Systems & Infrastructure:** Linux, deployment, system integration, networking
- **Data & Visualization:** SQL/NoSQL databases, dashboards, data analysis, system monitoring
- **Domains:**
 - Additive Manufacturing
 - IoT & Distributed Systems
 - Smart Infrastructure & Logistics (vertical farming, warehouse automation)
 - Public Sector & Utility Software Systems (multiutility platforms)

WORK EXPERIENCE

Nikon SLM Solutions

Software System Engineer

Lübeck

Jan. 2026 – Today

- Collaboration with stakeholders to translate business needs into technical solutions.
- Definition of system architecture, components, and technical specifications.

Nikon SLM Solutions

Senior Software .NET developer

Lübeck

Jan. 2025 – Dec. 2025

- Developed software in C# and C++ using .NET and WPF frameworks for machine control systems.
- Designed and implemented connectivity systems for data exchange between machines and external services.

Self-employed

Software Engineer (Freelance)

Verona/Bologna

Jun. 2022 – Oct. 2024

- Collaborated directly with clients to gather requirements, refine features, and deliver end-to-end solutions.
- Designed and implemented back-end logic and APIs for web-based systems.
- Built responsive front-end interfaces using Angular (TypeScript) and modern JavaScript.
- Deployed and maintained applications on Linux-based servers, managing build, release, and production environments.

AYES - Management & Technology Consulting

Consultant

Verona/Bologna

Mar. 2018 – Dec. 2024

- Developed full-stack software solutions using C#, C++, C, JavaScript, Go, and Python, with frontend frameworks such as AngularJS and Vue.js.
- Integrated data collection systems using industrial and IoT protocols such as Modbus, OPC UA, LoRaWAN, HTTP, MQTT, and TCP/IP.
- Developed data visualization solutions, including dashboard design and selection of appropriate database architectures (SQL/NoSQL depending on use case).

Accenture*Infrastructure Practitioner - PMO*

- Planned and executed data center consolidation and migration
- Followed development team in cloud-native applications building

Milano*Sep. 2016 – Mar. 2018***CINI***Junior Researcher*

- Classification and prediction with AI algorithms
- Statistical analysis

Napoli*Feb. 2016 – Jul. 2016***EDUCATION****Università degli Studi di Napoli Federico II***Second Level Degree in Telecommunication Engineering*

- Final degree mark: 110/110 cum laude
- Thesis title: Multipolarization SAR change detection algorithms

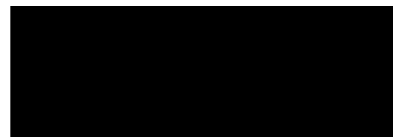
*Jan. 2016***Università degli Studi di Napoli Federico II***First Level Degree in Telecommunication Engineering*

- Final degree mark: 95/110
- Thesis title: Multifractal analysis of SAR images related to sea areas polluted by hydrocarbons

*Dec. 2013***LANGUAGES**

- Italian — Native / Mother tongue
- English — Full professional proficiency (daily working language; written and spoken)
- French — Intermediate proficiency (school background; written and spoken)
- German — Basic proficiency (currently learning)

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