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• SAMUELE.SCHIAVI

RÉSUMÉ / EXTENDED EDITION

SOFTWARE DEVELOPER — R&D

Samuele *Schiavi.*

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SUMMARY

Of qualification

Software Developer R&D with 35+ years of professional experience across embedded systems, industrial automation, enterprise software, mobile platforms, and applied AI. Currently Senior Developer R&D at FTSystem (Antares Vision Group · Crane NXT Co.), designing C#/.NET/Vue.js/Go HMI for food and beverage inspection lines.

Career spans: SAP enterprise integration (CRM, ERP, J2EE Portal) for Valeo, FIAT, ENI, RCS Rizzoli Editori; native mobile development (iOS, Android, Windows Phone); supervised and unsupervised ML for audio classification and fingerprinting; distributed token-based authentication (ASP.NET Web API 2 + Owin + CORS + Identity); computer vision for real-time industrial robotics; architecture migration from high-cyclomatic-complexity legacy codebases to hierarchical state machines.

Completing a BSc in Physics (2026) at the University of Parma; planned MSc in Quantum Technologies starting the same year. Available for full-time engagements.

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EMPLOYMENT

Selected positions

2020 — **NOW**

CURRENT

Senior Developer · R&D

FTSystem — Antares Vision Group S.p.A. (acquired by Crane NXT Co.)

- Designing and evolving C#/.NET/Vue.js/Go HMI for food and beverage inspection lines.
- Developing UIs for machine-vision applications.

2017 — 2020

Software Architect

Biesse Group S.p.A. — BSoft

- Feasibility study of a revised supervisor for the management of automated cutting and drilling lines for wood panel processing.
- Installation and set-up of industrial line supervisors for wood panel processing.

2007 — 2017

Developer · R&D

Numerika S.r.l. — Piacenza

- Analysis and development of native mobile applications and related backends for iOS, Windows Phone and Android.
- Analysis and development of backend systems to encode / decode, watermark, fingerprint and recognize streamed digital audio contents — supervised and unsupervised classifiers.
- Analysis and prototyping of a digital signage application running on embedded ARM / Linux devices, Qt Framework, H. 264 hardware acceleration.
- Development of tools aimed to automate A/V and editing workflows. Web and UI design.

2005 — 2006

Computer Vision

Real-time Object Detection

- Anthropomorphic robots with camera rigs picking brake discs off stacks in real time — object detection for multi-axis robots and drilling systems.

2000 — 2005

mySAP Consultant

Realtech Italia S.p.A. — *Agrate Brianza, Milan*

- Java / ABAP bridging for SAP Pricing solutions within mySAP CRM Internet Sales IPC — *Valeo, Wind Roma.*
- SAP Data Archiving — *RCS Rizzoli Editori.*
- Development of an Enterprise Application Interface client for integrating R/3 systems into legacy environments — *FIAT.*
- J2EE applications on SAP Enterprise Portal: delivery-tracking (*AST Acciaierie Speciali Terni*), internal forum (*Telecom Roma*), backend integrations (*ENI Milano*).
- Java / ABAP bridging for mySAP CRM Mobile — *Farmaceutici Angelini.*
- Pocket PC Mobile application via SAP Internet Transaction Server; ABAP coding.

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EDUCATION

Formative years

2026

BSc · *Physics*

Università degli Studi di Parma

Graduating 2026

1991 — 1995

Elettronica e Cibernetica

Università degli Studi di Parma

Studies in applied physics, electronics, cybernetics

2026 — Present

MSc · *Quantum Technologies*

Università degli Studi di Parma

Planned application

1985 — 1990

Elettronica Industriale

Istituto Tecnico Industriale G. Marconi

Piacenza — Industrial electronics diploma

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TECHNICAL STACK

30+ years of tools

COMPILED LANGUAGES

Assembler 68000 · C / C++ · Java
· Objective-C · C# · Go

PROCEDURAL / SCIENTIFIC

MATLAB · Mathematica

DESKTOP / MOBILE FRAMEWORKS

Cocoa / iOS · Android · Qt (SDK)
· .NET

CLIENT-SIDE FRAMEWORKS

AngularJS · Vue.js

INTERPRETED

Pascal · Lisp · Ruby · Python

SCRIPTING

Tcl · AppleScript · JavaScript · bash
· PHP

SERVER-SIDE FRAMEWORKS

WebObjects · J2EE · ASP.NET

MARKUP & INTERCHANGE

HTML · XML · JSON · SOAP

MySQL · MongoDB

Memcached · Apache Solr

AI TOOLS

Claude (Anthropic)

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SELECTED WORK

In their own words

FTSystem · Antares Vision Group · Crane NXT Co. · 2020 — Now

Since 2020, Senior Developer R&D at FTSystem (Antares Vision Group · Crane NXT Co.) — designing HMI for food-and-beverage inspection lines: interfaces through which operators interact with machine-vision and inspection hardware.

AI-augmented engineering using Claude (Anthropic): UI/UX analysis identifying structural gaps, Vue.js frontend, and backend data-exchange definition. All output systematically reviewed — directed acceleration, not generative coding. Estimated 7× productivity gain.

Biesse Group · 2017 — 2020

Installed, set up and tested proprietary industrial supervisor for woodworking lines, and contributed to the evolution of the software architecture and the approach of software to automation. A representative move: the switch from convoluted IF-THEN-ELSE-SWITCH “spaghetti code” with complex expressions, proliferating flags and variables, many paths through the code (high cyclomatic complexity) and fear of “breaking the logic” — to **hierarchical state machines**, an extension of finite state machines, drawn from the Active Objects design pattern. A framework captures architecture and makes it reusable: sequential paradigm (flowchart).

Numerika S.r.l. · 2007 — 2017

When smartphones arrived, the company carved out space in the service industries by extending its digital-signage core business to music and large retailers — a **full-stack project**. Developing a native mobile application applies a wide spectrum of concepts and best practices: division of the problem into multiple tiers with low technical-debt architecture; platform-idiomatic UI/UX exploited through the native framework; and aggressive optimisation of algorithms and data given the CPU, RAM and battery envelope of the device. Nothing like writing a simple command-line or desktop application. Here, reinventing the wheel is not the right way to proceed.

At the back-end, heterogeneous data had to be stored: user management, notifications, GPS tracking and business-model data; large volumes of media; extracted audio features used to train supervised and unsupervised classifiers and visualise content relationships. The variety required heterogeneous systems distributed across cloud storage. For authentication, we developed a multi-device, multi-tier, distributed token-based system on ASP.NET Web API 2 + Owin + CORS + Identity, with an adaptive AngularJS Material Design frontend.

In parallel I laid foundations for a Linux digital-signage application running on ARM platforms. The application used the Qt Framework with particular attention to **H.264 hardware acceleration**. Again, limited resources drove a distributed architecture across intranet / internet with automatic service discovery through Zeroconf – no manual setup, no dedicated DHCP/DNS servers.

Realtech Italia · 2000 – 2005

Mainly wrote Java (J2EE) bridging solutions to transparently manage communication between Internet Pricing Configurators (IPC) – the SAP CRM component that fetches pricing during sales-order, quotation and contract creation – the Internet Transaction Server, and legacy environments, in order to overcome interoperability issues. These assignments deepened my study of **BPEL** (Business Process Execution Language), the XML-based language used to formally describe commercial and industrial processes and allow a division of tasks among different actors. During this period I also built a first mobile application on the Microsoft Pocket PC platform.

A PIVOT · 2005

Shortly involved – due to company bankruptcy – in a real-time object-detection project where anthropomorphic robots equipped with cameras had to efficiently pick up brake discs from a stack.

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