

DANIELE VERDOLINI

Industrial Automation Engineer | Automation Project Engineer

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PROFESSIONAL PROFILE

Freelance industrial automation engineer with over 10 years of experience in the design, development and commissioning of automated plants across many sectors (automotive, food, pharmaceutical, chemical, defense, industrial printing). Specialized in revamping and retrofit of existing plants, including migration between different PLC/HMI platforms, and in virtual commissioning to reduce plant downtime and testing time. Hardware design of electrical cabinets (component selection, developed in the technical office at Makr Shagr, Eaton and Emmecitecnica) and, through a network of professionals, coordination of turnkey solutions from cabinet design to final commissioning. Siemens PLC programming (S7-300/1200/1500, TIA Portal, SCL language) and Rockwell, HMI/SCADA development (WinCC), fieldbus networks (Profibus, Profinet, MPI, PPI, Ethernet, OPC-UA) and Industry 4.0/5.0 integration (MES). Programming of KUKA, Yaskawa, Fanuc, ABB robots and CNC programming. Works both remotely and on-site, in Italy and abroad.

WORK EXPERIENCE

Industrial Automation Engineer – Freelancer

2023 – Present

PLC/HMI/SCADA software development, commissioning and technical support for clients across many sectors (automotive, food, pharmaceutical, chemical, defense, industrial printing). Specialization in revamping/retrofit of existing plants and virtual commissioning. Coordination of turnkey solutions through a network of professionals, from electrical cabinet design to final commissioning. Selected projects: programming and commissioning of 16 KUKA robots on an electric-motor assembly line (automotive); complete retrofit of an automotive line with migration to Siemens S7-1500/TIA Portal; S7-1500 PLC development for a 12-axis line with Nidec drives and MES integration in the food sector. Work both on-site and remotely, on Siemens, Rockwell, Omron, Schneider and Delta platforms.

PLC Programmer – Emmecitecnica

2021 – 2023

Technical office: collaborative definition of hardware (PLC, electrical cabinets) and software development, from design to final acceptance with the client.

Electronic Maintenance Technician – Eaton

2020

Technical office: development and maintenance of software and hardware for automated plants, with collaborative component selection.

Robot/PLC Programmer – Makr Shagr

2018 – 2020

Technical office: programming of robotic cells, testing and after-sales support, with collaborative hardware definition. Responsible for a team of two. Project with a strong international dimension.

Robot Programmer – Manganorobot

2018 · automotive sector

Programming of KUKA articulated robots for international automotive clients.

Robot Programmer – MLS Pries

2017 · automotive sector

Programming of KUKA and ABB robots for international automotive clients.

Team Leader – Gruppo Magnetto

2014 – 2017 · automotive sector

Management of the production department and coordination of staff, including CNC machinery.

Earlier experience (before 2014) available on request.

TECHNICAL SKILLS

PLC	Siemens (Step 7, TIA Portal, SCL language), Rockwell Allen-Bradley, Omron, Schneider, Eaton, Delta, Mitsubishi
HW Design	Electrical cabinet component selection; reading of electrical, pneumatic and hydraulic diagrams
HMI / SCADA	Siemens WinCC, ASEM, Weintek, Delta, ESA
Robotics	KUKA, Yaskawa Motoman, Fanuc, ABB
Fieldbus networks	Profibus, Profinet, MPI, PPI, Ethernet, OPC-UA, Modbus
Sensors	SICK, Keyence, Pixsys, IFM
Software	KUKA Sim Pro, Siemens Step 7 / TIA Portal, Visual Studio Code
Programming languages	C, C++, VB, CNC programming
Operating systems	Windows, Linux, Mac OS
English	B2 level (Fluentify certified)

TRAINING & CERTIFICATIONS

FANUC – RO03: Handling Tool, basic programming · Integra 5: Daimler Robot Standard · Yaskawa: BASIC & ADVANCED programming · KUKA.Sim Pro V3.x · Siemens TIA Portal online course · RSLogix500 & 5000 online course · PES/PAV/PEI course – Electrical Safety · High-Risk Workers Safety course

EDUCATION

Diploma in Accounting and Business Studies (Ragioneria e Perito Commerciale) — Liceo Scientifico Statale Piero Martinetti, Caluso (TO), 2004

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