

Luca Gallina

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Profile

Freelance programmer/analyst with extensive experience on Siemens S5 and S7 PLCs and with automated systems integration from the conceptual design stage to commissioning.

Have worked for different software houses, including a Siemens Industrial Service company, and therefore in touch with various automation fields.

Good problems solving and analytical skills.

Ability to work independently or within a team environment

Education

- 1992 - present:
 - various seminars and workshops.
 - various programming courses at Siemens for specific functional units.
- 1991: System 9000 programming course at Honeywell, Milan.
- 1988: Basic and advanced PLC programming courses at Siemens, Milan.
- 1988: Basic NC programming course at Siemens, Milan.
- 1982: Diploma in Electric Engineering at “Enrico Fermi” State Industrial Technical Institute in Bassano del Grappa (Vicenza, Italy).

Professional status

- September 1994 – present
Freelance automation programmer and consultant for several Italian industrial companies and software houses.
- November 1988 – August 1994
PLC/HMI programmer/analyst at different Industrial Automation software houses.
- June 1985 – October 1988
plants erection and machinery commissioning engineer.

Professional experience

- Full-time automation programmer since 1989, planning, developing, commissioning and documenting software for automated machines and plants.
- Most experience concerns Siemens S5 and S7 PLCs in various industrial fields such as steel and woodworking machinery, steel mills and foundry plants, packaging machinery, food and beverage industry, automated storing, glass industry, scientific and research applications.
- Experience as software specialist and consultant for Italian Siemens Service.
- Experience in open and closed loop positioning modules, multiple-axis machinery applications.
- Developed S5/S7 blocks libraries for third parties.
- Developed specialised software with Borland Delphi or MS Visual Basic.
- Developed PC-based CASE utilities, simulation applications and other PLC programming aids.
- Knowledge of PLC communication processors (Serial, Profibus, Industrial Ethernet).
- Experience in communications, including protocols reverse-engineering.
- Developed SCADA / HMI applications.
- Experience in small and large projects, in team projects as well.
- Work experiences in Europe, USA and Asia.

Logistics and Airport relevant information

My skills and experience in developing automated storage systems (belt and tray conveyors, barcode reader and printers, RFID devices, items tracking, communication with higher-level computer systems) can be applied to Baggage and Freight Handling Systems.

As aviation fan, I am aware of avionics instrumentation and ground systems concepts (e.g. Airport Light Processor, Runway Safety System). I am familiar with aviation jargon and ATC communications.

PLC Controllers and languages

- Specialised in Siemens STL (AWL) and SCL (Pascal-like) languages
- Siemens S5 100/115/135/155 series,
communication processors CP 521/523/524/525,
HMI processors CP 526/527/528,
high speed counters, open-loop positioning modules IP 385, IP240, IP241, WF 706
closed loop positioning modules IP 266, IP246, WF 721/723, WF726.
- Siemens S7 300/400 series,
communication processors CP343/443, CP341/441
high speed counters, open-loop positioning modules FM350/351
closed-loop positioning modules FM354
NC module FM357
Simodrive 611 drives (analog and Profibus controlled)
Moby RFID systems
- Past experience in programming other PLCs brands: Allen-Bradley, Omron, GE, Schneider (Telemecanique), Hitachi, Mitsubishi, April, Klockner-Moeller, Texas Instruments, Honeywell System 9000.

Microcontrollers

- Microchip PIC microcontrollers

Computer science

- Programming languages: Pascal and Borland Delphi, MS Visual Basic, C (for microcontrollers)
- Operating systems: DOS, MS Windows 3.x / 9x / NT / 2000 /XP, Linux.
- Specific programs: AutoCAD, Visio, HTML editors, MS Office suite, DTP programs.

Tech related interests

Hardware and software design of stage lighting systems with use of laser beams and pyrotechnic controls, mainly used in Pink Floyd tribute bands concerts. Systems include the design and programming of custom, microcontroller-driven, slave DMX cards plus the PC-based master control software interface.

Teaching skills

- Instructor of several training courses at professional schools and industrial companies.

Languages

- Italian
- Good English
- Some French.

References

- Available upon request.