

FORMATO EUROPEO
PER IL CURRICULUM
VITAE



PERSONAL INFORMATIONS

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Nationality	ITALIANA
Date of Birth	23/10/1971
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EDUCATIONAL AND TRAINING

- Date (interval)
- Name and type of education o training institute
- Main subject/professional skills covered by the study
 - Qualification achieved
- Level in National classification (if appropriate)

1991 - 2000
Politecnico di Milano

Laurea in Ingegneria Elettronica

- Date (interval)
- Name and type of education o training institute
- Main subject/professional skills covered by the study
 - Qualification achieved
- Level in National classification (if appropriate)

1991
ITIS "J.Torriani" – Cremona

Materie tecniche / Elettroniche e di Automazione.

Maturita' Perito Elettronico industriale

NATIVE LANGUAGES

Italiana

OTHER LANGUAGES

- Reading ability
- Writing ability
- Oral expression skills

English
good
good
good



WORKING EXPERIENCE

• Date (interval)	<u>since 2000</u>
• Company Name and address	Siae Microelettronica S.p.A – Via Michelangelo Bonarroti, 21 – 20093 – Cologno Monzese (MI)
• Type of business or sector	Telecommunications network equipment design and manufacture company, provides wireless fronthaul and backhaul solutions
Kind of employment	R&D Department HW Lab Platform Development Manager
• Main role and responsibilities	Engineer with more than 20 years of experience, passionate about his work and enthusiastic. Thinking up new ways of seeing things and everyday objects has always been a passion. Over the years, I have gained all-round experience and have been able to collaborate in teams with many recent graduates, providing them with a background for their professional growth. I follow the development of telecommunications equipment from the initial study phases, following functional specifications and pre-costing for a competitive product that meets the needs imposed by the market, up to the production of the same: - Initial study of mechanics to impose the design on the mechanical cad, especially for the resolution of heat dissipation problems. - System study of the equipment and choice of user interfaces. - Active participation in the choice of components including the switch for the ethernet interfaces. - Choice of the type of control plane and microprocessor. - Drafting schematics and cad help for PCB layout. - Project description and specifications. - Bring-up prototypes (complete bring-up) - Drafting of test specifications for the implementation of test benches for the equipment. - Excellent Hardware-Software integration capability. - Excellent problem solving skills. - Knowledge of microprocessor interfaces (IMX NXP) and peripherals. - Knowledge of 10/100/1000 baseT electrical ethernet interfaces, and in-depth experience of 1/10/25GbaseR optical interfaces. Debug SFP+ and SFP28 with electro-optical converters for viewing Eyes Masks through realtime Oscilloscopes. - Knowledge of optical transmission standards such as CWDM and DWDM optical multiplexing and demultiplexing and OADM optical appliances. - In-depth knowledge of ethernet switches (Broadcom, Marvell) for the management of the quality of service and in general of the MEF. - Small FW developments in C/C++ including the network protocol RSTP (802.1d/w) for opening the network loop. - Small developments in VHDL including I2C implementation for reading and writing optical/electrical modules. - Knowledge of network protocols including IEEE1588 (device synchronization), RSTP, MSTP and transport protocols.

• Date (interval)

since 2001

Member of the Order of Engineers of Cremona at number. 1165.

- Design of electrical, lighting and street lighting systems.
- Analysis and resolution of problems related to the complete design of electrical systems according to law 46/90 and complete design of lighting systems for indoors and outdoors.
- Verification of electrical systems in public, private and industrial buildings and issuance of the consequent system verification project.
- Consulting on light pollution and energy saving (regional law 17/3/2000).
- Consulting on the CEI 64/8 regulation on system safety in places of public entertainment (public entertainment supervisory commissions).
- Consulting on energy saving.
- Design of heating systems.
- Consulting on the subject of Legislative Decree 29/12/2006 n. 311.
- Energy certifications (as a qualified entity of the Lombardy region).

Main training courses

- Qualification and training course on Energy Certification of buildings at the Order of Engineers of Milan, with passing of the final exam at the Polytechnic of Milan (May 2007);
- Course for building energy certifiers according to the new Sacert accredited course procedure (May 2007);
- Cened calculation procedure update seminar (August 2007) regarding the Lombardy Region Official Bulletin of 20 July 2007;
- Accreditation of certifying bodies in the Lombardy CENED region with n. of accreditation 283 (September 2007) following passing the supplementary exam for registration with Punto Energia, the regional accreditation body.
- Low enthalpy geothermal training course on geothermal heat pumps at EPC European Project Certification s.r.l (July 2008);
- Technical seminar Energy certification and new calculation procedures (March 2009);
- Course on electrical regulations Project of electrical systems TNE (July 2009);
- TNE photovoltaic systems course (May 2010) - Advanced heating systems design seminar organized by Afor sas (October 2011);
- Introduction to the Project Manager Course of the Order of Engineers 2014
- IT Project Management Course of the Order of Engineers 2014
- Introduction to Industrial Automation Course of the Order of Engineers 2014
- Afor Residential Heating Systems Design Course (88 hours) 2017.
- Team manager course (2019)
- Various courses on Keysight and Lecroy Teledine for measurement instrumentation(2022).

Organizational skills

Ability to organize the work of collaborators in various design phases.

Technical skills

Use of all IT tools present in the company (such as Microsoft, Siemens for PCB design and simulations). Management software for remote measurement instruments such as 80Gs LeCroy oscilloscopes, IXIA, ANRITSU, VIAVI packet generators, synthesizers, etc.
Autocad, lighting engineering software and Edilc

Other Skills

Many years of experience in the design of civil and industrial electrical and thermal systems and for public administration. Design of building automation aimed at energy saving in buildings, thermoregulation for district heating, solar collector systems and photovoltaic systems. Energy teacher at the Polytechnic of Como in 2014 as an expert in photovoltaic system design.

Patents

Patente A

Main works for public administration

Emergency lighting system design for the municipal stadium of Municipality of Offanengo (CR).

Design of new lighting system for the municipal stadium of Ricengo (CR).

Design of new lighting system for the municipal sports field of Cataletto di Sopra (CR).

Design of electrical and lighting system for the public park of Vallée de l'Hien, at the Municipality of Izano (CR).

Design of new computer room system for the D. Alighieri middle school at the Municipality of Offanengo (CR).

Design related to works to expand the electrical system for the "Eden" Senior Citizens' Center at the Municipality of Offanengo (CR).

Design of lighting system for Viale Pallavicina at the Municipality of Izano (CR).

Realization of the Municipal Lighting Master Plan – PRIC- for the Municipality of Izano (CR).

Design of the lighting system for the New Cycle Path in the Municipality of Izano (CR).

Design of the Lighting System for the Industrial-Artisan Area in the Municipality of Izano (CR).

Electrical/lighting design Oratory of the Cathedral Crema (CR).

Heating system design for Nursery School at the Municipality of Izano (CR).

Photovoltaic system design 14.17 Kw at the Municipality of Izano (CR).

Internal/external electrical and lighting system design also with LED systems

for the New Municipal Nursery School at the Municipality of Offanengo (CR).

Photovoltaic system design 35 Kw for the New Municipal Nursery School at the Municipality of Offanengo (CR).

Definitive design of summer/winter air conditioning system - elementary school at the Municipality of Offanengo (CR).

Electrical system design for municipal warehouse of Ricengo (CR). Teacher of the Energy ch-it course at the Polytechnic of Milan (Como campus)

"Energy Account and Advanced Design of Photovoltaic Systems"
Collaboration in the design of the "free energy" district heating system - Municipality of Roncoferraro (MN). Cooling/heating and thermoregulation system for schools, sports hall, nursery school, and town hall.

Design of 110 Kw photovoltaic system at the Municipality of Izano (CR).

Design of the electrical system for the Sports Hall at the Municipality of Izano (CR).

Electrical and lighting design with LED systems, building automation, thermoregulation / forced ventilation and incendiary system

Collaboration in the design of the thermal/regulation system for the "Aula Blu" (conference hall)
at Fiumicino Airport in Rome.

Design of a wastewater lifting system, electrical and lighting systems
for a pedestrian and cycle underpass at Ipercoop Crema (CR).
Preliminary design of an electrical and thermal system with heat pumps for a new RSA Romanengo (CR).
Design of an electrical and thermal system with heat pumps and forced ventilation for a funeral home in Crema (CR).

Autorizzo il trattamento dei miei dati
personali ai sensi del Reg. UE
2016/679

Offanengo, 07/03/2025

Firma