SILVIO VALLORANI

CONTACT INFORMATION

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⌂ Contrada Casaregnano, 9 -
63079 Colli del Tronto (AP)
- Italy

📱 +393463981348

📅 23 Sep, 1982

🌐 Italian

🖥 linkedin.com/in/silvio-vallo
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SKILLS

- Microcontroller programming
- Embedded C
- Real Time Operating Systems
- Debugging skills
- Circuit analysis
- Rapid HW/FW prototyping
- Signal processing
- Python scripting
- Problem solving skills
- Autonomous and team working

LANGUAGES

- Italian | native
- English | intermediate

OBJECTIVE

**Passionate Senior Developer with over 12 years of
industrial experience in hardware and firmware design,
implementation, and troubleshooting.**

Skilled in rapid prototyping and collaborating across
disciplines to deliver innovative solutions on time and
within budget.

*LTE Expert, Zephyr/IoT Addicted, Matter Enthusiastic,
TinyML/AIoT Curious, Embedded DevOps CI/CD Dreamer*

EXPERIENCE

SENIOR HW & FW SPECIALIST

INIM Electronics. Monteprandone, Italy
| Feb 2013 - Present

https://www.inim.biz

- **Designed devices** for intrusion detection and building
  automation systems - like **keypads**, **rfid readers**, **mobile
  communicatiors**, **domotics actuators** - including
  schematics and PCB validation.

- **Developed firmware** for microcontrollers, optimizing
  performance and power consumption.

- **Led hardware troubleshooting** efforts to identify and
  resolve issues effectively.

- Done **code and/or schematics refactoring** to quickly
  address the components shortage problem.

EDUCATION

MASTER DEGREE IN ELECTRONIC ENGINEERING

University of Bologna. Bologna, Italy | 2009 - Present

BACHELOR DEGREE IN ELECTRONIC ENGINEERING

University of Bologna. Bologna, Italy | 2001 - 2008

CERTIFICATES & COURSES

Embedded C Programming Design Patterns -
https://ude.my/UC-d05ef07d-45bf-4bf0-bad4-1dc908c57e64

Ultimate Embedded Firmware DevOps Infrastructure -
http://ude.my/UC-4afe77f9-4a5c-442e-8b85-42d019259aaa

Cellular IoT Fundamentals -
https://academy.nordicsemi.com/check-
certificate/7019A86769CE599-7019A8670C69A88-
7019A866B0D72D8

nRF Connect SDK Fundamentals -
https://academy.nordicsemi.com/check-
certificate/7019A86769CE46C-7019A866B1C1B91-
7019A866B0D72D8

AWARDS

**Awarded with the 3th place in the Make it Matter!
contest** using a Nordic Semiconductor DK and it's Zephyr
based SDK, to develop a Matter enabled Smart
Terracquarium: MatTerraquarium -
https://www.hackster.io/contests/makeitmatter

PUBLICATIONS

**HapticLib: a Haptic Feedback Library for Embedded
Platforms**

In Proceedings of the ACM Symposium on Applied
Perception (SAP '13). Leonardo Guardati, Silvio
Vallorani, Bojan Milosevic, Elisabetta Farella, and
Luca Benini. 2013.
http://doi.acm.org/10.1145/2492494.2501882

OTHER

Driving licenses: A (motorcycle) and B (car)

Blood donor