SIMONE VELLEI

Creative and people-oriented developer with tech lead and product-oriented skills. Advanced knowledge in engineering and developing IoT devices. Good experience in designing and developing cloud services.

simonevellei.com | henomis@gmail.com | Github | Linkedin
+39.339.1298166 | Grottammare (AP), Italy

WORK EXPERIENCE

Senior Backend developer

UFirst.com. 11/2021 - present

- Developed *phygital* hybrid queue and appointment service which allowed the company to expand its market.
- Designed and developed video conference integration for queue and appoint management which allowed the company to be the first in Italy in this field.
- Designed and developed ExxtrAI SaaS product based on AI that processing talks, lectures or training speech produces enriched contents.

Backend developer / Project manager

Inim Electronics. 01/2017 - 11/2021

- Designed and developed a notification system queue that allows to all internal cloud services to send emails or newsletters based on custom templates, replacing a 300€/year service.
- Designed and developed a documents management platform that allows company to have employee restricted access over a S3 bucket
- Designed and developed an e-learning platform that allowed company to certify its installers and maintain a strong relationship during covid emergency.
- Designed and developed an interactive web-based fire detection systems configurator that allowed company to provide to its customers an useful management and selling tool.
- Designed and developed a custom authentication and SSO system that allowed company to save 50k€/year.
- Led internal team of 3 in developing new internal company cloud department.
- Led and managed an external team in design and development Google and Amazon voice assistant support to burglar alarms.
- Oversaw internal team of firmware developers to help implementing cloud connection support in IoT devices.
- Led and managed an external team in design and development a cloud infrastructure for IoT devices.
- Devised and engineered specifications and guidelines to expand company business implementing cloud-based architecture for burglary alarms and fire detection systems.

Senior embedded developer

Inim Electronics. 09/2005 - 01/2017

- Designed and developed a secure internet protocol for a new burglar alarm devices generation, that allowed company to build and sell more complex and reliable systems and to extend its business to home automation.
- Designed and developed one of the first multimedia keypad for burglar alarms that allowed company to provide complex intrusion detection systems connecting panels over a LAN network and to redesign user interaction with an upgraded graphic interface.
- Designed and developed the first GNU/Linux embedded LAN gateway for burglar alarms that expanded company business supporting 3rd part protocols such as KNX, SIA-IP, Modbus and improved user experience with a brand new responsive web interface and email notifications.
- Designed and developed an innovative GNU/Linux embedded board that boosted fire detection systems with a LAN communication gateway and a web interface.
- Designed and developed a token-ring network stack, over RS485 bus, that allows company to sell complex systems with up to 30 fire detection panels in a network, enough to cover a large airport.

Junior embedded developer

Bentel Security. 04/2005 - 09/2005

- Created first prototype of a multimedia keypad, using a GNU/Linux embedded system from scratch, with the aim to replace obsolete LCD versions.
- Developed specifications and guidelines for a multimedia keypad for burglar alarms.

EDUCATION

E-learning courses

- *Machine learning.* Stanford University - 2019, Coursera.org
- *Cloud computing concepts.* University of Illinois at Urbana-Champaign - 2014, Coursera.org.
- *Introduction to electronics.* Georgia Institute of Technology - 2014, Coursera.org.
- *Linear circuits.* Georgia Institute of Technology - 2014, Coursera.org.

Computer Science Master Degree

Università di Bologna: 03/2005

SKILLS

- Go | C | Python | OpenAI | LangChain | GNU/Linux | Git | MongoDB | Redis | MySQL | GraphQL | MQTT | Docker | Traefik | Devops | Project management | Agile
- Communication | Teamwork | Confidence | Problem solving | Self-management | Speaker | Content creator

INTEREST

- Forensic analysis | Mountain & Outdoor | BBQ & Gourmet | Sing & Music