

Curriculum Vitae



Personal Information

SIMONE PERNICE

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Address *** ***** **, ***** Turin, Italy
Date of Birth Palermo, ** ***** 1975
Nationality Italian

Work Experiences

From June 2008 to today

Magneti Marelli Sistemi Elettronici
Senior Electrical Designer

Main activities

- Product leader for the design of automotive black box.
- Coordination of the design, demonstration, characterization and certification of the new telecommunication convergence platform for automotive.

Subject covered and trainings

- Electronic devices used in automotive: displays, micro-controller (Freescale, ST), memories (FRAM, PSRAM, Flash ROM NAND and NOR), CAN bus, K-line, RS-232, button and knobs status acquisition, LVDS signal transmission, audio CODEC, DAC, power management (buck, boost, LDO), GSM modules, GPS modules, GPS chip-set.
- High Speed design for signal integrity. Design practices to reduce electromagnetic interferences.
- Tools, protocols, interfaces and certifications required in the automotive field.

From January 2005 to July 2008

Motorola Electronics S.p.A.
Senior Electrical Engineer

Main activities

- Coordination of the characterization and international certification activities of mobile phones.
- Design, simulation and demonstration of base-band analog and digital electronic circuits for 2G and 3G phones.

Subject covered and trainings

- Software architecture in mobile phone. Electronic devices: microprocessors (Freescale, TI), memories (PSRAM, SDRAM, Flash NAND and NOR, micro SD card), processor to memory interface (Freescale architecture), video camera, display (TFT, CSTN), Graphical Processor Unit (nVidia SC5), power supply (buck, boost, LDO), Li-ion battery (charging, discharging, charge gauge), accelerometer (orientation measurement).
- Six Sigma Green Belt program, Signal Integrity.
- CAD: Mentor, Cadence.
- English used as main language in the company.
- Prototype production support on Chinese, German and USA factories.

From August 2002 a January 2005

Motorola Electronics S.p.A.
Electrical Engineer

Main activities

- Design, simulation, characterization and certification of analog and digital base band circuits of 2G mobile phones.

Subject covered and trainings

- Electronic devices: interfaces (USB, IrDA, Bluetooth), amplifier (A, B, D class), back lightening (LED, electro-luminescent panel), ambient light sensor, keyboard management, microprocessor (Freescale), memories (PSRAM, Flash ROM), power section.
- English used as main language in the company.

From January 2001 to August 2002

Ericsson Telecomunicazioni S.p.A.
Software Engineer

Main activities

- Design and development of the software for telecommunication networks.
- Development of applications for fee database load balance on network operators.

Subject covered and trainings

- Telecommunication protocols and network like: ATM, GSM, GPRS, EDGE, UMTS.
- Information technology: Windows, Unix, Linux, C, C++, Perl, Java, SQL, UML.
- Team Working, Understanding self.

Education

July 2002

Italian qualification required to be a freelance engineer with a marking of 106/120.
Member of Palermo engineering association since 2002.

July 2000

Master degree in Electronic Engineer (five years training) with a marking of 110/110 cum laude.

July 1994

Qualified on Telecommunication (High school) with a marking of 56/60.

Languages

Italian mother tongue.

English excellent written and spoken.

Organizational Skills

Planning and management of the design, demonstration, characterization and international certification activities for new appliance prototypes. Coordination of conference calls with colleagues from other country focused to fix common issue.

Management of the technical interviews for hiring new colleagues and the new fresh-out colleague trainings.

Open source active member. Sharing of the programs and their source code wrote in my spare time as hobby. The programs are mainly utilities for cell-phones: store and encryption of secret codes, expense management, games, and so on. They are published on my (self made) Internet web site. Coordination of the fixes, improvement, feature and language addition to provide the new versions.

Technical Skills

- Electronics: general base band analog and digital circuitry knowledge (power, amplification, processor, memory, display, camera, IO interfaces)
- Operative System: Unix, Linux, DOS, Windows, Mac Os;
- Programming Languages: C/C++, Java, Perl, Pascal, Basic.
- Assembler Languages: PIC, Z80, 8086, 68000.
- Database: SQL language.
- Application: Microsoft Office (Open Office), Mathematica, Matlab (Octave), SPICE.
- CAD: Mentor, Cadence.
- Computer Network: Ethernet on Windows, Samba on Linux.

Further Information

Hobbies ride my mountain-bike, reading technical books and novels, managing my web site, write programs, DIY.

The reader can manage my personal data as per the Italian law "D.lgs. 196" of 30th June 2003.