Massimo Zannoni

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00.00.1900 | Italian | he / him

Working Experience

Senior Analog Design Engineer

Sony AVS AG (formerly Insightness AG)   *2017 – current*
Wiesenstrasse 5, 8952 Schlieren, CH
Image Sensors / Computer Vision

- ⬦ Analog IC design in CMOS technology
  - · Event-Based Image Sensor
  - · 3D-IC
- ⬦ Project leading for IC design
- ⬦ Sensor modeling for simulation and machine learning
- ⬦ Optical and electrical characterization

Design Engineer

GigOptix-Helix AG (subsidiary of GigPeak, Inc.; now Renesas Electronics Corporation)   *2013 – 2017*
Seefeldstrasse 45, 8008 Zürich, CH
Opto-electronics

- ⬦ High-speed analog IC design in BiCMOS technology
  - · 28 Gbit/s TIA receivers and VCSEL drivers
- ⬦ RF and optical measurement
- ⬦ Customer support, production support and RMA analysis

Thesis Worker

ABB AB Corporate Research Center   *July 2012 – December 2012*
Forskargränd 7, 722 26 Västerås, Sweden
Power Technology Dept., Electric Power System Group

- ⬦ Semiconductor device modeling
- ⬦ Power Electronics

Education

MSc in Electronic Engineering

Università degli Studi di Parma, Italy   *2009 – 2013*
Faculty of Engineering
Analog/Digital IC Design, Semiconductor Physics, Sensor Technology, Power Electronics

- ⬦ Thesis: *PSpice Modeling of 4.5 kV StakPak^{TM} Modules*
- ⬦ Grade: 107/110

BSc in Electronic Engineering

Università degli Studi di Parma, Italy   *2005 – 2009*
Faculty of Engineering
Electronics, Electrotechnics, Information Technology, Controls, PCB Design

- ⋄ Thesis: *Experimental Characterization of a Magneto-hydrodynamic Micro-Stirrer*
- ⋄ Grade: 108/110

Skills and Competences

Languages

Italian:	Native
English:	Fluent
German:	Beginner/Intermediate

Technical and Organizational

- ⋄ Analog IC Design
- ⋄ 3D-IC
- ⋄ Full-custom analog IC layout
- ⋄ Project leading
- ⋄ Fundamentals of machine learning and deep learning
- ⋄ Problem-solving in non-standard context
- ⋄ Data analysis
- ⋄ Strong technical skill in interdisciplinary domains
- ⋄ Electrical and optical measurements

Computer Tools and Software Development

Operating Systems:	Linux: very good knowledge Microsoft Windows: good knowledge
Electronic CAD:	Cadence DFII (Virtuoso, Spectre), Mentor TannerTools, Mentor Calibre, Mentor AFS, SPICE, Cadence OrCAD (PSpice)
Programming:	Python, C/C++, Matlab/Octave, shell scripting, VHDL, Verilog/VerilogA, LaTeX
Version Control:	Git, Subversion, ClioSoft SOS

Others

- ⋄ Good photo-editing and computer drawing skills
- ⋄ Hand-working: good familiarity with tools and instruments for building electronic systems; basic skills in the use of main mechanic hand-tools and power-tools

Personal Interests

- ⋄ Photography
- ⋄ Love for traveling
- ⋄ Archery
- ⋄ Love for the mountains (particularly, hiking and MTB)

Annexes

- ⋄ Appendix including patents, publications and references
- ⋄ Reference letters (*Arbeitszeugnisse*) by former managers available upon request
- ⋄ Personal website: https://www.fotobill.com