

Charles J Gervasi, PE

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SUMMARY

- Electronics Engineer with 12 years experience in PCB-level design, product-level design, and project management
- Recent experience is in product-level design of RF equipment for utility and industrial automation applications and PCB-level design of instrumentation equipment.

WORK EXPERIENCE

Freelance Engineer

(Oct 2010 – Present)

- Designed and debugged assorted boards for instrumentation equipment, including boards with high-speed digital, DDR memory, low-noise analog

Prosoft Technology

Design Engineer

(Jul 2004 – Oct 2010)

- Designed digital and RF circuits at the schematic and PCB level (OrCAD/Allegro)
- Integrated radio modules into industrial automation products
- Product management: regulatory, schedule, verification/validation, documentation
- Embedded microprocessor design

University of South Florida

Teaching Assistant

(Jan 2004 – May 2004)

Jabil Circuit

Design Engineer

(Dec 1998 - Nov 2003)

- Designed digital and analog circuits at the schematic and PCB level
- Brought-up and debugged new hardware
- Performed EMI testing and modified designs to achieve compliance
- Managed program schedule, budget, and project quoting.

Phasetronics

Project Engineer

(Jan 1998 - Dec 1998)

- Designed and supported production of analog control circuits to regulate voltage, current, and power in SCR-based 3-phase power controls
- Participated in internal audit of engineering department for ISO 9000 compliance

EDUCATION

- ***Master of Science in Electrical Engineering - Communications and DSP***
University of South Florida, May 2005
- ***Bachelor of Science in Electrical Engineering***
University of Florida, December 1997

TECHNICAL SKILLS

- Schematic and Layout Packages - OrCAD Capture / Layout and OrCAD CIS database, Cadence Allegro (OrCAD PCB Designer), Mentor Expedition, Eagle CAD
- PCB DFM/DFT tradeoffs
- High-speed PCB routing/layout for EMI, EMC, analog, and controlled impedance issues
- 8051, Motorola Assembly, C++, PIC Assembly, Pascal, MATLAB, PSpice
- VHDL - experience from hardware debug standpoint and from graduate-level coursework
- Very proficient in Spanish
- FL PE License #62555