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SUMMARY

Electrical engineer with strong electromagnetic interference and compatibility (EMI/EMC) background. Over six years experience with analog design check/analysis, test, troubleshooting, test equipment design, procedure design, and EMC qualification for complex electronic systems.

PROFESSIONAL EXPERIENCE

ROCKWELL COLLINS, San Jose, CA
2009

Employee: 2003 -

Contractor (Advanced Technical Resources): 2002 -

2003

Senior Electrical Engineer (2009)

- Designed, built, and tested prototype electromagnetic interference control measures leading to performance improvements and fast resolution of design questions
- Drove component selection efforts resulting in markedly better electromagnetic compatibility for a complex display device
- Self-initiated training to operate EMC equipment in support of on-site pre-qualification (conducted emissions, conducted susceptibility) and troubleshooting
- Trained several peers to operate various pieces of EMC equipment effectively and safely
- Continued to provide test procedures, test execution (lab support and EMC oversight), and test report inputs per primary EMC role

Electrical Engineer (2006 - 2008)

- Fulfilled lead electromagnetic compatibility (EMC) analysis and design check role on multiple projects which passed electromagnetic qualification tests
- Wrote hardware and EMC test procedures and reports on a regular basis
- Self-initiated training to operate EMC equipment in support of on-site pre-qualification and troubleshooting
- Learned and applied stringent EMC standards (e.g., MIL-STD-461E) ensuring products properly tested to customer requirements
- Held lead role in determining requirements for and setting up on-site EMC chamber, resulting in significant time and cost savings for programs
- Supported multiple EMC test and troubleshooting projects leading to full pass and outage resolution
- Promoted to Senior Electrical Engineer

Junior Electrical Engineer (2003 - 2005)

- Created schematic diagrams (Mentor Graphics software) in support of multiple design efforts
- Wrote functional and diagnostic test procedures for various circuit cards in a system, resulting in efficiency improvements in production testing
- Edited and updated microprocessor code (C language) to better support test objectives
- Began pursuing Electromagnetic Interference and Compatibility (EMIC) specialization via authorship of Electromagnetic Interference Control Plans for several projects
- Promoted to Electrical Engineer

LOGIC PLUS SOLUTIONS, San Luis Obispo, CA

2001 - 2002

Junior Software Engineer

- Authored code and performed testing for interactive electronic device microprocessors (6502, RSC-364)
- Implemented voice-recognition capability in interactive electronic devices (using Sensory tools)
- Wrote firmware control routines for low-level processes and microprocessor communication

KAISER ELECTRONICS*, San Jose, CA
2000

Summer

Engineering Aide (Internship)

- Performed schematic capture, component placement, and netlist debugging for aircraft video display system
- Co-authored computer-aided engineering library manual (used Visio and Mentor Graphics)

* Note: Kaiser Electronics was acquired by Rockwell Collins in December 2000.

NASA/AMES RESEARCH CENTER, Moffett Field, CA

1998 – 1999

Engineering Assistant (Internship, Foothill-De Anza School District)

- Designed, developed, and implemented Filemaker Pro database intended for use by NASA to collect and organize customer test requirement data
- Used LabVIEW software to set up analysis/reduction program for wind tunnel data
- Developed calculator program used to estimate test time and cost for various aircraft model test configurations (based on angle change duration, installation requirements, etc.)
- Performed mathematical calculations resulting in safe install of full-scale Wright Flyer replica in wind tunnel

EDUCATION

Bachelor of Science in Electrical Engineering, June 2002
California Polytechnic State University, San Luis Obispo, CA

ADDITIONAL TECHNICAL EXPERIENCE

- Electronics assembly (soldering, wiring, circuit prototyping, etc.)
- Familiarity with analog design principles, esp. filters, common/differential noise, etc.
- Basic HTML
- Basic C programming
- Drafting / graphics / technical drawing
- GNU Image Manipulation Program (graphics)
- IBM-PC/Windows Operating System
- Basic LabVIEW programming
- Linux/Unix Operating System
- Microsoft Office (Word, Excel, Powerpoint, etc.)
- Digital Photography

OTHER EXPERIENCE

- Co-wrote (with author Pamela Sargent) a chapter in the anthology *Year Million: Science at the Far Edge of Knowledge* (2008, ed. by Damien Broderick)
- Provided manuscript / draft editing for the book *Ending Aging: The Rejuvenation Breakthroughs That Could Reverse Human Aging in Our Lifetime* (2007, by Aubrey de Grey & Michael Rae)