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Professional Summary

Unique combination of electrical engineering, electronics, instrumentation and academic achievement and experience in Technical Communication. Experience with complete product life-cycle: prototyping, production, sustaining, cost reduction, retrofits, alpha beta site testing, supply chain, technical support, customer correspondence, training, inside and outside sales. Desires to apply skills and abilities in new product development, sustainment, support for a professional company that offers growth and training.

Engineering Design Skills and Abilities

- Electrical/electronic design, system integration of OEM process equipment, electrical power distribution, instrumentation, signaling, motion control, safety systems

Keywords: analog signal transmitters, environmental sensors, safety devices and circuits, control devices, power conditioners, UPS, circuit protection, electrical hardware and labels, facilities power and signaling, data acquisition converters, PC, DCS, PLC, remote wireless telemetry units, cellular antennas, web-based SCADA

Technical Communication and Information Design

- Information and graphic design for rhetorical strategies (audience, purpose, context)
- Technical writing and editing - self and collaborative
- Review and analysis of documentation for rhetorical strategies
- Subject Matter Expert interviewing
- Instructional training over-the-phone and in-person
- Print and on-line production methods and distribution

Keywords: presentations, proposals, user guides, manuals, troubleshooting aids, step-instructions and procedures, on-line help systems, articles, tech bulletins, WEB

Safety Codes and Process Chemical Material Awareness

- Material Safety Data Sheets, Chemical Safety PPE training
- Class I Division 2 hazardous location guidelines for vapor % LEL
- Worker environment protocols: Class 1000 Clean Room, Production Floor FOD
- NFPA 70 , NFPA 79, EN60204, SEMI S2
- Thermoplastics, Polymers, epoxy, tapes, FRPP, NPP, PVC, Teflon, Stainless Steel, Aluminum, Thermal Stickers, Gauges, Fittings Piping Tubing, Conduits, Enclosures

Keywords: Temperature Controlled Chemical Fluids and Pressurized Gases (SO₂, HF, NSE, BOE, Phosphoric, SC₁, SC₂, HCL, HNO₃, H₂SO₄, H₃PO₄, IPA, DI Water, N₂), Fire Detection and CO₂ suppression, P&ID, 3D solid modeling

Education

MA in Technical Communication

Boise State University, Boise, Idaho, College of Arts and Sciences, 2004 to present
42 credits applied to a MA in Technical Communication. Graduation date is contingent upon portfolio acceptance.

EE374 Power Systems Analysis, College of Engineering, spring 2003

EE376 Electrical Power Distribution, College of Engineering, spring 2002

Boise State University, Boise, Idaho

BS in Electronics Engineering Technology, College of Engineering and Architecture Tech
Oklahoma State University, Stillwater, Oklahoma

Collaborative Team Projects: Semiconductor, Energy, Defense Sectors

- TM support FCC 2008 analog mandate NP release: SCADA RTU System, CDMA, GPRS
- SCP design and support of INTL tool sets: 8400, 9200, 9400, 94XX, E200, Greenstar
- SCP E200 Pilot Line New Product Development and Sustainment for US, Asia, Europe
- SCP Greenstar development team member for Advanced Process and Control Tool Set
- LM custom product development team member for flight test instrumentation control: IH3001, IH3047, IH3053, IH3057, IH3083, IH0906, IH8012, IH8001

Employment History

Product Support Engineer

4/2005 - 7/2008

Telemetric Corp. Boise, ID

(Application Engineer, Data Analyst, SCADA Administrator, Content Developer, Trainer)

- Trainer and technical support for large user base of virtual customers on a product line of four RTUs, application software, wireless cellular web-based SCADA. Troubleshooter of remote problems in wireless SCADA electrical systems.
- Administrator of SCADA web site Application Suites. Analyzed cellular traffic, coordinated service plan airtime billing, modem commission/decommission.

Keywords: FCC 2008 Analog to GPRS conversion, PowerVista Application Suite, T646, TC012, TVM, DNPRTM, Technical Documentation, Antennas, Coverage, Cell Networks

Electrical/Electronics Design Engineer

7/1993 - 1/1997 and 3/1998 - 2/2005

SCP Global Technologies Boise, ID

(Project Manager, Systems Integrator, Researcher, Cost Reduction, Compliance)

- Lead EE designer and project manager responsible for International OEM Automated Semiconductor Process and Control Equipment for 200mm semiconductor wafers.
- Design, Integration, Sustaining Support of electrical/electronic systems, auxiliary equipment integration, electro-pneumatic systems, facility power signaling, safety.

Keywords: Temperature Control, Instrumentation, Heaters, VFD, Berkeley Amplifiers, BAM Controllers, Environmental Sensors, Safety and Interlocks, Optical Detects, Power Conditioning, Circuit Control and Protection, ECO, BOM, CE, TCF, FMEA

Electronics Manufacturers Representative

1/1997 - 3/1998

Halbar-RTS Boise, ID (Kirkland, WA)

- Representative for Wakefield thermal products by managing account at Micron Electronics. Qualified Blue Heron Heatsink for PII processor.
- Representative for Littelfuse to provide a local technical presence for circuit protection devices at Micron Systems Integration. Team member for qualification of SMT Fuse.

Keywords: synergistic linecard, resistors, crystals, motors, enclosures, fans, factory principles, distributors, purchasing, quotes, component samples

Instrumentation Design Engineer Sr

2/1988 - 7/1993

Lockheed Martin Aeronautics Co Fort Worth, TX

(Electronics Circuit Designer, Researcher, Lab Test Engineer, Project Coordinator, Trainer)

- Team Instrumentation Design Engineer in flight test operations for the Lockheed F16 Fighting Falcon and General Dynamics/McDonnell Douglas A12 Avenger.
- Custom Product Developer in electronic circuit design, firmware development for mixed-signal instrumentation, data formatting, control of air-borne flight test instrumentation. Collaborated with packaging engineers and managed PCB layout.

Keywords: A/D converters, connectors, ribbon cables, active analog and, passive components, digital discrete, programmable logic, micro controller, Mil-Spec, ATIS firmware, 87C51, assembler, RS422, BIO, R-NRZ, NRZ, IRIG, MIL-1553, SF312