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OBJECTIVE

A challenging regulatory compliance or reliability position in bringing product developments to market.

KEY SKILLS

- EMC, Safety, and NEBS Compliance – Design and Test
- Reliability Analysis & Testing
- Hardware Design Validation
- People, Project, and Budget Management
- Personal Organization & Effectiveness
- Effective communication – verbal, written

EMPLOYMENT AND EXPERIENCE

10/2002 – 4/2003 **TURNSTONE SYSTEMS, Santa Clara, CA**

Turnstone Systems developed telecom copper line management products for access, test, and switching. The company has ceased operations.

Compliance & Reliability Engineering Manager and Lead Compliance Engineer

Responsible for performing and managing all compliance and reliability activities as well as the Engineering Lab.

- Established comprehensive regulatory and reliability program for new program development. Provided design support for new chassis, fuse panel, and eight new cards.
- De-risked product development through an extensive NEBS/regulatory evaluation: EMC, Safety, Lightning Surge, Power Cross, Fire Spread, Vibration, Seismic, Steady-State Power Induction.
- Created Reliability Block Diagram (RBD) models to quantify reliability improvement areas.
- Designed and lead reliability test and power system design validation programs.
- Managed lab infrastructure improvements for Feature, EFT, EMI, and Thermal testing.
- Effectively communicated plans and status up to executive level.

Chosen as the only industry representative for the 2003 Verizon NEBS seminar. The presentation is entitled: “*Central Office Power & Ground Requirements and Design Solutions.*”

Lead author for a RAMS 2004 paper submission: “*A Comprehensive Hardware Reliability Program for Developing Carrier-Grade Telecom Equipment.*”

2000 - 2002 **MAPLE OPTICAL SYSTEMS, San Jose, CA**

Maple Optical Systems was a developer of DWDM and multi-protocol (ATM/SONET/Ethernet/MPLS) optical switch/router equipment. The company has ceased operations.

Hardware Design Assurance Manager and Compliance Engineer

Responsible for performing and managing all compliance, reliability, and hardware validation activities.

- Provided all EMC, safety, and NEBS analysis and design recommendations for two new mechanical system developments and fourteen circuit boards.
- Developed global regulatory requirements for company.
- Created a full suite of NEBS test plans and executed them at external test labs.
- Created board design document to capture best practices for high-speed design.
- Designed power-decoupling strategy for circuit boards.
- Created thermal management strategy document.
- Developed system-grounding strategy. Created power and voltage drop budget.
- Developed process for reliability analysis and design validation testing and led a team in implementing it. Process included MTBF calculations, FMECA, Markov Modeling, HALT, and reliability design validation.
- Defined reliability requirements at the system and sub-system level.
- Led RFP responses in the area of compliance, reliability, and physical design.

- Specified and coordinated the purchase and installation of a walk-in environmental chamber for reliability testing.
- Performed FMECA and Markov Modeling as well as managed other engineers in these tasks.

Chosen as one of only three industry presenters for the Verizon sponsored NEBS2002 conference. The presentation is entitled: "*Network Reliability and NEBS: Designing Carrier Class Equipment.*"

1990 - 2000

NORTEL NETWORKS

Nortel is a developer of equipment for nearly every telecommunication market segment.

Manager, Product Integrity; RTP, NC [1996 - 2000]

- Global technical prime within Nortel for communicating NEBS status to Bell Atlantic. The responsibility involved managing input from all Nortel Product Integrity groups, submitting data to Bell Atlantic, and directly negotiating deliverables with the customer primes.
- Managed a technical design and verification group consisting of nine employees, \$1.9M annual budget, and twenty-two different customers.
- Responsible for the design-in and verification of Reliability, EMC, Safety, Thermal, Structural Dynamics and other NEBS & ETSI requirements for 30+ telecommunication projects per year.
- Personally negotiated contract responses to AT&T on regulatory requirements and managed the Bell Atlantic NEBS program for Nortel's flagship central office product line, the DMS-100.
- Received award for group's customer loyalty performance.
- Lead the reliability program for Succession, Nortel's next generation switching architecture.
- Consistently received top percentile bonuses & options

Project Manager & Sr. EMC Engineer; RTP, NC [1993 - 1996]

Product Integrity Program Manager

- Coordination of reliability, regulatory and customer physical requirements activities for central office, enterprise and wireless hardware projects.
- Major accomplishment was the leadership of Integrity teams on a new ATM based enterprise platform development and an outside plant GSM wireless base-station.

Sr. EMC Engineer

- EMC Standards Coordinator for Nortel
- Hardware EMC Design engineer on over 50 different carrier, enterprise and wireless programs
- Nortel delegate to Telecommunications Industries Association (TIA TR47.3) EMC committee

EMC Engineer; Ottawa, Ontario, Canada [1990 - 1993]

- EMC Engineer for Fiberworld Magnetic Gasket Cover
- EMC representative for multi-disciplinary Grounding architecture group which resulted in a change to the corporate grounding strategy
- Principal author of the Bell Canada EMC Engineering Guide

1/1990 - 7/1990

ASEA BROWN BOVERI, Baden, Switzerland

EMC Research Scientist

Investigated EMI prediction methods using GTEM cells

EDUCATION

- 1986-1989 Masters of Applied Science in Electrical Engineering
University of Ottawa, Canada
Specialization in Electro-Magnetic Compatibility
- 1982-1986 Bachelor of Applied Science in Electrical Engineering
University of Ottawa, Canada
Magna Cum Laude

References available upon request.