

## KEITH RIECHERS

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**SUMMARY:** Twenty-six years of experience and responsibility as a Regulatory Compliance, Reliability, and Quality Assurance Engineering professional; with experience in the development, sustaining, and manufacturing efforts for commercial and military defense products.

### PROFESSIONAL EXPERIENCE:

**Tellabs Operations, Inc.;** Lisle, IL and Burlington, MA

**SENIOR COMPLIANCE ENGINEER**

Developed and produced electronic and optical cross-connect and optical transport SONET telecommunications systems

1999 Performed and facilitated regulatory compliance testing for domestic, Canadian, and European product safety to (UL/IEC 60950) and EMC (CFR Part-15, EN55022, and EN300386) compliance, as well as NEBS (GR-63 and 2002 GR1089), SBC, and other industry standards compliance testing. Component and assembly level change control services for regulatory compliance. Conducted internal audits for regulatory compliance. Facilitated UL and CSA factory compliance audits, and corrective action for audit findings of noncompliance. Participated in product design reviews for regulatory and reliability compliance. Evaluation and design review for product upgrades to latest regulatory requirements.

**Self Employed - KAR-Consulting;** Deer Park, Washington

**Regulatory Compliance Engineering Services**

1999 **Telect Corporation - Liberty Lake, Washington:** Served this telecommunications and professional audio/video control equipment and manufacturing company, with compliance engineering services for meeting foreign and domestic regulatory agency requirements. Product agency submissions, development support, and evaluation testing. Fuse, Power Distribution and Switching Modules/Panels; Audio/Visual Switch/Control Units.

**Key Tronic Corporation;** Spokane, Washington

**SENIOR COMPLIANCE ENG.- RELIABILITY**

Manufactured and developed computer keyboards and other I/O devices for PC and industrial applications. Industrial Key-Pads and Touch Panel Modules, Finger-Print Scanners, LCD-Display Modules, Power Controllers.

1995 Responsible for Regulatory Agency submissions, inspections, and compliance. Worked Change Control and to Design Review activities. Obtained Microsoft and Novell product compatibility certifications. Performed 1999 Radiated and Conducted Emissions and Immunity testing at KTC's FCC/NVLAP accredited, open field, test facility (NVLAP Signatory and also served as NVLAP Authorized Laboratory Representative of KTC's EMI Laboratory). Performed agency and training audits of company facilities in Spokane, Mexico, and China.

**Il Morrow Inc., a UPS Company;** Salem, Oregon

**SENIOR-QE/REGULATORY & RELIABILITY**

Developed and produced products for UPS operation needs (including 200MHz base station and radio system, spread spectrum yard communications, package-car scanner); as well as commercial avionics devices. These product designs incorporated a full range of digital control, frequency and power management, communication, laser-scanner, display, PCBs, fasteners, thermal control, and interconnect; device and component technologies.

1991 Selected for and completed management training program. Facilitated TQM and its implementation, and quality to improvement teams. Performed and facilitated QFD and project plan development. Performed design review 1995 and change control functions. Developed project quality, test, and Qualification/DVT plans; reliability failure classification (FMECA), and design review procedures. Wrote quality procedures and FAA approved company quality manual. Developed and standardized company calibration system. Participated in FAA audits and FAA Repair Station Manual development. FCC, UL, CSA, EC/EU, and other regulatory affairs (point contact, design advisor, agency audits, test and approval coordination). Developed and taught a Reliability and Maintainability Overview course. Facilitated trend analysis and reporting, MTBF prediction, and design derating guidelines development.

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**RAYTHEON;** Portsmouth, Rhode Island

**SENIOR-QA/TEST ENGINEER**

The Submarine Signal Division of Raytheon developed and produced DoD weapons control and sonar systems.

- 1981 Facilitated design reviews while representing Reliability, Hardware-QA, Software-QA, and Component to Engineering functions. Chaired, coordinated, and provided technical direction and support for Design Review activities. Participated in system acceptance test team (DVT and Qualification) activities.
- 1991 Supervised Quality Conformance Inspection and Qualification programs. Responsible for bid, budgets, and schedules of labor, materials, and equipment required; for performing Qualification, design evaluation, reliability, and program management requested testing. Established test methods and fixturing for NonStandard Parts and Design Verification Testing (DVT) of assemblies and components (including MIL-STD-461 testing). Chaired NonStandard Part Review Board. Performed laboratory and process investigations and worked with suppliers to resolve problems. Directed work of eleven technicians, and provided inputs for technical and supervisory reviews. These test activities were for a wide range of component technologies including: Electromechanical and Electromagnetic Devices (relays; contactors; pulse, power, and coupling transformers), Power Supplies, discrete passive and semiconductor components, line filters, voltage multipliers, IC's, Hybrids, ceramic modules, user input devices and displays.

**MARCONI AVIONICS INC.,** Atlanta, Georgia

**RELIABILITY/QA-ENGINEER**

- 1978 Established failure reporting trend analysis systems for all company programs. Significant trends were to reported and used for corrective action. Collaborated with Design Engineering on design proposals and changes. Provided MTBF predictions, FMEA evaluations, and design alternative recommendations.
- 1981 Established and coordinated the necessary controls for assuring product quality and compliance to contract requirements on the F-16 Head-Up Display system - production, repair, and support equipment programs. Performed vendor quality audits and provided rejected material dispositions. Selected Incoming Inspection IC and component test equipment. Interfaced with sister divisions, suppliers, and provided technical support; in USA, Canada, and England. Component/Device technologies worked include CRT's, multilayer PCB's, glass and fiber optic components, mechanical seals and fasteners, and a full range of passive and active components.

**PACKARD INSTRUMENT CO. INC.,** Downers Grove, Illinois

**QA-ENGINEER**

- 1977 Solved incoming inspection and assembly problems on electronic/electro-mechanically controlled nuclear to radio-assay - instrumentation and support equipment, used in medical laboratory and research environments (FDA/GMP). Created and chaired Material Review Board. Developed vendor corrective action program, and provided rejected material dispositions. Established incoming inspection program and department procedures. Wrote incoming and assembly inspection instructions.
- 1978

**SHURE BROTHERS INC.,** Evanston and Arlington Heights, Illinois

**QC-ENGINEER**

- 1975 Performed new product evaluations (Design Verification Testing), environmental testing, product quality audits, to and reliability studies (SPC, MTBF, and FMEA) of products and components. Established and wrote
- 1977 conformance and environmental test procedures manual. Prepared company and department training manuals on forms and procedures.

### EDUCATION:

Northern Illinois University B.S. Electrical Engineering (3.59 out of 4.00).  
ASQ Certified Quality Engineer (Certification No: 33326) – Expired 1998.