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Professional Summary

Results-driven Electronics Engineering Technician with over 30 years of experience in R&D, sustaining engineering, verification & validation testing, and troubleshooting of complex electronic systems, medical devices, RF power supplies, and avionics. Expertise in LabVIEW, test fixture design, environmental testing, and cross-functional collaboration. Recently retired from Medtronic after a successful career supporting high-reliability products.

Work Experience

Engineering Tech 4
Medtronic (formerly Covidien), Boulder, CO
July 2013 – September 2020

- Performed R&D activities including execution of Verification and Validation test protocols.
- Conducted sustaining activities involving troubleshooting to the component level, test fixture design, and fabrication.
- Accepted early retirement package in September 2020.

Sustaining Engineering Tech III – HW/SW Integration
Covidien / Medtronic, Boulder, CO
November 2007 – July 2013

- Performed Verification and Validation testing on Pulse Oximeters and related medical products.
- Created ECOs, test fixtures, and test procedures.
- Set up and maintained lab for Sustaining Engineering.
- Procured parts and secured/tracked test equipment.
- Utilized LabVIEW programming and environmental chambers for validation testing.

Engineering Tech – R&D
ADECCO,on contract to **Woodward Governor,** Fort Collins, CO
July 2006 – November 2007

- Built, documented, tested, troubleshot, and repaired high-voltage ignition exciter modules for aircraft turbine engines.
- Performed daily testing in thermal chambers using LabVIEW.

Engineering Tech III – R&D
Valleylab, Boulder, CO
January 2006 – July 2006

- Built, documented, tested, troubleshot, and repaired electro-surgical generators and associated test fixtures in an R&D environment.

Test Engineering Tech / RF Matches R&D Engineering Tech / Customer Service Tech
Advanced Energy, Fort Collins, CO
April 2000 – December 2005

- Maintained test equipment in the repair lab for all products manufactured and serviced by Advanced Energy.
- Built spare test fixtures and documented them using AutoCAD.
- Gained experience with PCAD schematic and PCB layout design; procured parts to support the repair lab.
- Prototyped, assembled, and tested RF matches and sub-assemblies prior to manufacturing release; analyzed and repaired RMAs.
- Utilized lathe, basic machine shop tools, LabVIEW, PCAD, Multisim, and custom RF Match design software.
- Created ECOs and maintained extensive documentation in lab notebooks.
- Operated network analyzers, oscilloscopes, and other lab equipment.
- Collaborated with internal customers including manufacturing, engineering, customer service, drafting, document services, shipping/receiving, planners, and buyers.
- Tested and troubleshot RF power supplies and matches (used in IC and thin film coating manufacturing) to board and component level; utilized SAP daily for logistics.
- Performed circuit modifications, firmware revisions, testing, and troubleshooting (additional support across related roles).

Iowa - Engineering Lab Technician – Avionics
Rockwell Collins, Cedar Rapids, IA
September 1998 – April 2000

- Built, tested, and troubleshot test stations for Line Replaceable Unit modules for Boeing 767-400ER aircraft.
- Constructed and modified cables and test fixtures for multiple engineering projects.
- Used Visio and LabVIEW.

System Test Technician – X-ray Power Supply (Contract)
Creos Incorporated, Englewood, CO
November 1993 – September 1998

- Tested and troubleshot 60KW power supplies for Cat-Scan machines to system, subassembly, board, and component level.
- Handled RMA system-level testing and supported production testing.
- Logged failures in logbooks and Microsoft Access; worked to ISO 9002 standards.

Production Test Technician (Contract)
Microlithics Corporation, Golden, CO
January 1992 – September 1992

- Tested and troubleshot military computer systems to system, board, and component level.
- Ran automatic test equipment under environmental chambers and vibration testing.
- Documented per government specifications.

Test Technician – Digital Imaging Processor, X-ray System (Contract)
Fischer Imaging Corporation, Denver, CO
March 1990 – January 1992

- Bench tested and troubleshot state-machine and microprocessor-based video image processing modules.
- Interfaced and calibrated video processors, cameras, and monitors with X-ray systems.
- Led a quality improvement task team that proposed and implemented a cable assembly build (saving >$2,000 annually); received personal achievement award.

Test Technician – Remote Data Acquisition Modules
Synergetics International, Boulder, CO
October 1988 – November 1989

- Bench tested and troubleshot microprocessor-based modules for remote environmental applications to component level.
- Used SCADA software and automatic test equipment.

Technician – Telephone Products (Temporary, Part-time)
Teleconnect Telecommunications, Cedar Rapids, IA
September 1987 – April 1988

- Performed circuit modifications, firmware revisions, testing, and troubleshooting of key service units, modems, phones, and intercoms to component level.
- Used dynamic signal analyzer (while attending college full-time).

Education

Associate of Applied Science in Electronics Engineering Technology
Kirkwood Community College, Cedar Rapids, IA

Skills

- **Technical Expertise**: LabVIEW, AutoCAD, PCAD, Multisim, network analyzers, oscilloscopes, environmental chambers, thermal/vibration testing, SCADA, Visio
- **Testing & Troubleshooting**: Verification & Validation (V&V), component-level debugging, test fixture design/fabrication, RMA analysis
- **Manufacturing Support**: ECO creation, prototyping, SAP, procurement, lab maintenance
- **Other**: RF systems/matches, high-voltage systems, avionics, medical devices, documentation (lab notebooks, government specs), cross-functional collaboration
- **Soft Skills**: Research & Development, quality improvement, project leadership