

PROFESSIONAL OVERVIEW

Have performed Product Safety, Acoustic, Vibration, EMC testing, & worked in manufacturing area as an Electronics Technician, demonstrated ability to quickly master new responsibilities. Over 15 years' experience specialized in the use of various types of test equipment and instrumentation.

- ◆ Adaptable, problem solver, and a self-starter with excellent electrical/electronics troubleshooting skills who enjoys new challenges.
- ◆ Effective communicator who takes pride in knowing all aspects of the job and sharing knowledge with co-workers.
- ◆ Saved Dell Inc. over \$30K and valuable time by developing and implementing ideas to increase lab efficiency.
- ◆ Combines excellent manual dexterity with solid mechanical aptitude and ability to resolve complex problems.

PROFESSIONAL EXPERIENCE

DELL INC., Austin, TX

2000 – 2010

Test Tech/ Analyst

Worked in three different labs (Server Firmware, Acoustics, and the Product Safety Lab.

- ◆ Became “go-to-person” for devising solutions to problems that saved time and money.
- ◆ Received prestigious Director’s Award for excelling on special assignments.
- ◆ Performed multiple Product Safety tests on Servers, Desktops, and notebook accessories systems per IEC 60950-1 and 2nd Edition Standards.
- ◆ Assisted in passing Product Safety Lab audits by CSA, UL, & TUV SUD agencies.
- ◆ Performed Product Safety set-ups, configuration, test equipment functional test, data entry into reports, and data analysis before being evaluated by the Product Safety Eng.
- ◆ Created special project to verify Product Safety’s test equipment.
- ◆ Certified by the UL, and CSA agencies to perform Product Safety Testing on Dell products.
- ◆ Designed adjustable acoustical test gig that cut setup time by 80%.
- ◆ Performed sound power, sound pressure, research development sound acoustical noise measurements on Dell Servers, Desktops, and Notebooks referenced to ISO7779, ISO17025, ISO3744, ISO3745, ISO9296 standards. Also performed standalone development acoustical work on Dell product’s components such as different types of fans mfg., hard drives, graphic card fans, system memory fans, power supply modules fans, keyboard clicking noises, and electrical noises.
- ◆ Utilized Head Acoustic measurement test equipment and Artemis software.
- ◆ Documented and drew-up internal wire diagrams for all Product Safety test boxes used to perform Product Safety test and demonstrated how test boxes could be verified to be fully functional to be used for Product Safety Testing per UL, CSA agency standards.
- ◆ Created test plans due to multiple variance in test set-ups, set-up acoustic measuring test equipment, researched various software applications (to stress the video cards, hard drives, CPUs, optical drives, and different types of system fans).
- ◆ Took acoustical noise measurements, analyzed test results, & stored the data on Dell network drives.
- ◆ Maintained the lab acoustical chambers, purchased, replaced damaged ceiling and wall acoustical wedges.
- ◆ Took sound acoustical measurements to analyze the integrity of the acoustic chamber doors seals.
- ◆ Used the Allegro Viewer software application to locate traces and components on Dell Server circuit boards and compare them to the schematics to be able to solder multiple wires to test points on the circuit board.

- ◆ Used a software application (comprehensive set of CAD tools for creating precision drawings), provided network, electrical, lab floor plans, & mechanical lab tooling assembly drawing.
- ◆ Submitted trouble-tickets for lab maintenance (networking & electrical issues), sent out equipment for repair and calibration, labeled test equipment with bar code labels, and attached PDF files containing the test equipment calibration certificates to the Group's server database spreadsheet.
- ◆ Maintained Firmware lab's workstations (Computers, Servers & notebooks), kept them up to date with the latest patches after I/T identified viruses were loose on the Dell network system

ROLM/ SIEMENS BUSINESS COMMUNICATION, Austin, Texas**1985 – 2000****Laboratory Specialist**

- ◆ Performed audio, acoustic and electrical tests on Siemens telephone products, which included wired digital, analog, and wireless cellular and cordless phones. Tested to the Telecommunications Industry/Electronic Industries Assoc. (TIA/EIA) and European Telecommunication Standard Institute (ETSI) Standards.
- ◆ Used Bruel & Kjaer acoustical measurement test equipment for acoustical testing.
- ◆ Performed radiated and conducted emissions tests in accordance with FCC Part 15 Class A and B, and CISPR 22 Class A and B; conducted susceptibility requirements per IEC/ EN61000-4-6, and radiated susceptibility per IEC/ EN61000-4-3, and electrostatic discharge per IEC/ EN61000-4-2; and other international standards.
- ◆ Performed Surge and Burst tests, and ESD, drop product testing, product's accelerated life in controlled environmental chambers, and long line length on different manufacturing telephone wires for compatibility with Siemens's wired telephone products.
- ◆ Established test procedures and documented test setups for both audio acoustical and EMC testing.
- ◆ Managed the EMC/ Acoustic Lab's test equipment for repairs, calibrations; stored equipment calibration certificates for ISO 9000 audits.
- ◆ Provided PBX support to the Development Labs, which included performing software configurations, maintaining (including trouble-shooting to board level) to the PBX system. Enabled and disabled telephone lines (both voice and data), configured lines to match wired telephone devices, and ran telephone wiring between the different located intermediate distribution frames (IDF) punch down blocks.
- ◆ Assisted on engineering projects (prototyping and circuit modifications)
- ◆ Responded to Technical Assistance Center calls from the Field Service Engineers with ROLM telephone devices/ PBX customer related issues.
- ◆ Performed onsite modifications to ROLM to devices at large customer sites to resolve acoustical issues.
- ◆ Performed digital and analog component level trouble-shooting of microprocessor based printed circuit boards for ROLM computer/ terminal systems.

EDUCATION

Associate Degree, Electronics Technology, Texas State Technical Institute, Harlingen, Texas

MILITARY SERVICE

1st class Electronics Technician, Honorable Discharge, U.S. Coast Guard, Wildwood, NJ