

Charles J. Board

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SUMMARY

Electronics Test Specialist with extensive experience in the electronics industry with expertise in systems test design and support. Background includes experience with large scale functional, in-circuit, and cellular phone rack-and-stack test systems as well as component level troubleshooting. Proven project leadership in product test optimization, with on-time delivery of solutions that produced substantial cost savings. Experienced with troubleshooting analog, digital and RF circuitry in complex electronic assemblies.

- In-Circuit and Functional Test Design
- Agilent / Anritsu / Rohde Schwarz Instrumentation
- Cellular Phone Programming and Troubleshooting
- 5S / Green Belt Problem Solving Methodologies
- LTE, GSM, CDMA, W-CDMA Testing Experience
- Process and Procedure Design
- Project Management
- NFF Reduction
- SPC / MiniTab
- Failure Analysis

PROFESSIONAL EXPERIENCE

ANRITSU COMPANY - Richardson, Texas
Test & Measurement Equipment

2011 - Present

Field Applications Engineer

2011 - Present

As a member of the WST (Wireless Support Team) responsibilities included solving Carrier testing issues related to Anritsu's RF Cellular Analyzer, creating 3GPP compliant custom test sequences per customer requirements.

- Provide hardware and software support for RF Parametric testing at OEM and Carrier Repair Centers using RF Communication Analyzers and Base Station Signaling Simulators.
- Maintain MT8820C Automation code base (National Instruments Teststand) and software documentation.
- Provide pre-sales technical customer application qualification for the Anritsu Sales Channels.
- Provide product demonstration for technical and non-technical customer base.
- Provide Post sales technical support and training of Wireless conformance and performance test and measurement products and system solutions.
- Technical product collateral development in terms of application notes, white papers, presentations, etc.
- Extensive experience in testing LTE, CDMA2000, GSM and WCDMA protocols for Verizon, T-Mobile, MetroPCS and US Cellular devices.
- Support Test UICC / SIM creation with Gemalto Card Admin software

NOKIA - Fort Worth, Texas
Cellular Phone Manufacturing

1992 - 2010

Product Services Test Engineer

2007 - 2010

Developed and deployed test station hardware and software used in the rework of cellular phones in a post manufacturing environment.

- Created Preventive Maintenance, RF Calibration and Audio Calibration procedures for cellular phone testing in a high volume manufacturing environment.

- Created various Windows automation software scripts to automate product testing, which significantly reduced human error and test time.
- Defined, created and validated cellular phone tests; generated cellular phone test procedures for use in production area by third-party logistics (3PL) personnel.
- Supported re-configuration of cellular product (IS-95 and GSM UMTS) with updated flash code and/or PRL, ERI, SIM Locks, etc., resulting in reduced scrap and fast rework turn times for cellular service providers.
- Developed test strategies and then calculated ROI, capacity and hourly rate of product rework area. Then procured and installed necessary hardware and software to meet productivity requirements.
- Troubleshoot various test anomalies encountered once product rework processes began, which reduced “No Fault Found” (NFF) failures and increased test capacity.
- Assessed failed product and provided feedback through reports to R&D support personnel located at a remote location, reducing travel and product costs.
- Maintained calibration on various parametric test stations and equipment. Worked with vendors to reduce costs and time associated with annual equipment calibration.
- Provided first level support for Information Systems including PC workstations, Server, Switches and desktop application support.
- Designed and created fixtures and adapters to facilitate testing of cellular products. Created mechanical and electrical drawings for production test support of test cells.

Operations Test Manager

1999 - 2007

Directed and coordinated engineering activities involved in the development, procurement, installation and calibration of instruments used in the production and repair of cellular phones.

- Analyzed test data and prepared technical reports for use by engineering and management personnel.
- Utilized VSAs, Signal Generators, Power Meters and Radio Test Sets in automated product testing in high volume cellular phone manufacturing environment.
- Structured and maintained a test environment that encompassed all phases of cellular product alignment, testing and programming. Utilized Cognex Machine Vision Systems and Staubli Robotics to ensure cost efficiencies and product quality.
- Successfully handled various capacity expansions, cost reduction activities, and quality improvement projects.
- Worked with external vendors to maintain test and measurement equipment calibration and traceability. Implemented equipment calibration tracking process that ensured ISO compliance.
- Provided monthly reports and presentations detailing progress on test cycle time reduction, false failures (NFF) and other operational metrics.

Test Engineering Supervisor

1996 - 1999

Test Engineer

1994 - 1996

Test Engineering Technician

1992 - 1994

NEC AMERICA - Irving, Texas**1980 - 1992***Key Systems and PBX Manufacturing***Test / Repair Technician**

1980 – 1992

Test and repair of telecom systems from system level to component level. Utilized test and measurement equipment, soldering and de-soldering equipment to test and repair electronic assemblies. Also strap wire for ECN application and PCB repair.

EDUCATION / PROFESSIONAL TRAINING

Master of Science, Computer Information Management • University of Phoenix - Dallas, Texas

Bachelor of Science, Information Technology • University of Phoenix - Dallas, Texas

Junior level courses completed towards **Bachelor of Science, Electrical Engineering**
University of Texas - Dallas, Texas

Associates of Applied Science, Electronics Engineering Technology
Mountain View College - Dallas, Texas

Additional Continuing Education classes completed throughout my career in electronics can be reviewed at my professional bio website (<http://www.charlesjboard.net>).

PROFESSIONAL CERTIFICATIONS

FCC GROL License	CompTIA A+ Certification	CompTIA Network+
FCC Extra Class License	CompTIA Server+	CompTIA Project+