WORKING RF SYSTEMS ENGINEER

Qualifications

Microsoft office/Office for Mac, pages, numbers, keynote Â· RF/Microwave software: Ansoft Designer, AWR Microwave Office. Â· RF test instruments: Spectrum analyzer, Vector Network/Signal Analyzer, Logic Analyzer, etc. Â· Programming language: C/C++, Python, Java, Matlab, and LabView Â· Circuit design software: SPICE, NI Multisim Â· PCB design software: Eagle, PCB Artiest

Experience

Working RF Systems Engineer

May 2014 to Current Company Name

- Qualification Â· Multidisciplinary background: RF hardware designs, manufacturing operations and data analyst.
- Summary Â· Experienced in developing hardware's DFM procedures, checklists and requirements to subcontractors Â· Perform EVT, DVT, PVT verifications and utilize FA process to drive root cause from system to unit level Â· Team leader on multiple end-to-end technical project design, development, testing and validation Â· Manage Test/Production readiness reviews and drives quality requirement for post-ramp qualification Â· Ability to manage multiple projects simultaneously, self-starter with innovation and sharp attention to details Experiences - New RF systems introduction on satellite communication architecture designs and proposals - Define RF hardware unit DFM procedures and requirements for Antenna, receivers, filters, and amplifiers - Lead suppliers by providing technical design specifications and testing requirements to meet SSL standards - Utilize FA process to monitor overall project field performance.
- Audits and DFM reviews on-site with suppliers - Investigated the algorithm to optimize the overall RF system performance for design, manufacturing and testing - Perform EVT, DVT and PVT validations and quality measurements for satellite assembly at system and unit levels - Drive and track closure on any RF components and modules NCs and issues impact to production readiness - Work with cross-functional teams to execute completion of satellite system design to fulfill contract requirement - Generate cascade RF performance prediction analyses (i.e.
- NF, Gain, IP3, 1dB-Comp, spurious, etc) - Exercises independent judgment in developing methods, techniques, and evaluation criterion for obtaining results - Monitor and measure manufacturing processes to reduce losses, decrease time span and improve quality.

System Data Analyst

August 2011 to December 2013 Company Name

- Prioritize and extract big data from Purdue University's SQL database and maintain its accuracy and completeness - Develop and implement data collection systems strategies that optimize statistical efficiency and data quality - Data manipulation language SQL commands and utilize statistical tools including Excel, SAS, and SPSS.
- Create complex charts and temporarily databases, perform data mining, and develop pivot tables for publication - Design and customize reports based upon data structure and determine additional data collection requirements - Provide documentation based on audit and report criteria to investigators and research staff - Serve as a resource for non-routine inquiries such as requests for statistics or surveys.

Electrical/Validation Engineer

May 2011 to August 2011 Company Name

- Develop and maintain data requirement for PCBA EVT, DVT, and PVT assembly for touch-pads - Design and implement automated test for sensitivity, packrat, hovering, profiles, ripple, GSM, EMI, and ESD - Monitor manufacturer IC packaging test yields and field return failure data to identify root cause - Develop in-depth reliability testing procedures: storage, thermal stock, drop and tap tests - Perform debug and troubleshooting of product in house and at contract manufacturer site for support - Contribute in manufacturing diagnostic reviews to improve overall debug process more efficiently and effectively - Support internal and external customer related to lab data collection and verification of an application issue.

Education

M.S : Electrical and Computer Engineering , Dec. 2013 PURDUE UNIVERSITY GPA: GPA: 3.9/4.0 Electrical and Computer Engineering GPA: 3.9/4.0

B.S : Electrical and Computer Engineering , Dec. 2011 GPA: GPA: 3.2/4.0 Electrical and Computer Engineering GPA: 3.2/4.0 Thesis The Design and Evaluation of a 5.8 GHz Laptop-Based Radar System Publication Â· Innovative laptop radar design to operate in both FMCW and CW mode Â· Doppler shift (DTI), ranging (RTI), and SAR measurement capability Â· Operate in ISM frequency band with +13dBm transmitting power Â· Data acquisition and signal processing using Matlab

Skills

big data, C, C++, charts, Circuit design, hardware, Data acquisition, data analyst, data collection, data mining, databases, database, dBm, DTI, design software, documentation, functional, GSM, innovation, Java, LabView, Team leader, Logic Analyzer, Mac, manufacturing processes, Matlab, Excel, Microsoft office, Office, Microwave, Radar, NCs, Network, dB, packaging, pivot tables, Programming, project design, proposals, Publication, Python, quality, requirement, research, SAS, self-starter, Spectrum analyzer, SPSS, SQL, SSL, statistics, surveys, system design, troubleshooting, validation