Wei Choong Chin

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EXPERIENCE

02/2017 – present

Cisco Systems Data Center Product Operations (San Jose, CA)
Position: Senior Test Development Engineer
- Design system level functional test solutions for 4-Corner, reliability, parametric and system network traffic tests for the Nexus data center switches
- Implement DFT solutions and techniques to improve test efficiency and reduce cost of test
- Develop Python test scripts to automate system functional and reliability demonstration tests
- Continuously review production test yield to tune test limits, pass/fail criteria, test time and overall test performance of the Device Under Test (DUT)
- Perform root cause analysis and implement corrective action for production test issues
- Utilize big data mining tools to analyze and visualize operating characteristics of the DUT

02/2012 – 01/2017

Cisco Systems Service Provider Routing Product Operations (San Jose, CA)
Position: Senior Test Development Engineer
- Subject matter expert on NPI manufacturing test for ASR 9000 series edge routers
- Develop product testing solutions ranging from structural test, system functional test, fault insertion test and reliability demonstration test at Contract Manufacturer in China
- Manage project budget and procurement of test equipment
- Develop Autotest and LabVIEW test scripts to automate system functional tests
- Ensure end-to-end manufacturing test readiness and review production test results
- Develop manufacturing test plan and ensure comprehensive product test coverage
- Collaborate with cross-functional teams such as hardware and software engineering to troubleshoot and root cause product related issues

09/2006 – 01/2012

Cisco Systems Enterprise Switching Product Operations (San Jose, CA)
Position: Manufacturing Test Engineer
- Subject matter expert on NPI manufacturing test for Catalyst 6500 series enterprise switches
- Develop Autotest test scripts to automate system functional tests
- Collaborate with Contract Manufacturers in Malaysia and USA to deploy and implement manufacturing test processes from prototype to pilot to mass production build
- Responsible for ensuring end-to-end manufacturing test readiness and comprehensive test coverage in system functional test, regression test and reliability demonstration test
- Support Six Sigma quality yield goal, Design for Test and Design for Reliability initiatives
- Troubleshoot, root cause and provide solutions to manufacturing test issues

12/2001 – 07/2006

Sprint Network Implementation (Overland Park, KS)
Position: Senior Network Engineer
- Work on advanced production network configurations involving Nortel Passport switches and Lucent Plexus switches
- Develop testing specifications to build, deploy and turn up Nortel Passport switches in Sprint's wireline Frame Relay, ATM, Circuit-to-Packet and Next Generation Voice over IP networks
- Develop hardware acceptance procedures for testing the Lucent Plexus switches in support of the Sprint's National Wireless Voice over IP project and the New York Soft Switch Wireless Access Tandem project
- Prepare workload forecast, statistical data reports, accurate site audit and system documentation for immediate supervisor review

- Provide technical leadership to Nortel Passport and Lucent Plexus hardware test and acceptance team
- Subject matter expert on conducting back-office application regression testing
- Develop Visual Basic and Compuware QARun scripts to test and configure the production network switches

09/1999 – 11/2001 **Sprint Broadband Switch Operations (Reston, VA and Overland Park, KS)**
Position: Network Engineer
- Work on basic project configurations involving Nortel Passport switches
- Develop specifications to test and turn up Nortel Passport switches
- Prepare weekly status reports, statistical data, and accurate site audit and system documentation for immediate supervisor review
- Support capacity build projects on Frame Relay and ATM switching equipment
- Provide 2nd tier technical and maintenance support to ATM Control Center
- Subject matter expert on conducting back-office regression testing

EDUCATION

08/2008 – 12/2012 **San Jose State University (San Jose, CA)**
Master of Science in Computer Engineering
- Concentration in Embedded Hardware Systems
- Master's project on "Building a Software Framework for Prediction Analytics on Modeling Data Center Network Traffic Patterns"

08/2002 – 05/2004 **University of Kansas (Overland Park, KS)**
Master of Science in Engineering Management
- Master's project on "Utilizing Large Scale Linear Programming Model for Production Planning"

01/1997 – 12/1998 **Purdue University (West Lafayette, IN)**
Bachelor of Science in Electrical Engineering
- Concentration in telecommunications and networking

SKILLS

Operating Systems:
- Microsoft Windows, Unix, Linux

Programming Languages:
- Python, Autotest, LabVIEW, SQL, Visual Basic, C, C++, TCL/TK, Expect

Applications:
- Microsoft Word, Excel, PowerPoint, Project, Visio Professional
- Scientific computing programs such as MATLAB, Cadence SigXplorer, Anaconda
- Network traffic generator such as Spirent Test Center
- Text editors such as Vi/Vim, PyCharm, Notepad++, Atom
- Version control systems such as Cisco KCS, Subversion, Git, Bitbucket
- Bug trackers such as Cisco CDET, Trac, Jira
- Supply chain programs such as Oracle Agile PLM, Oracle IProcurement
- Cisco diagnostics software and Cisco IOS/IOS-XR/NxOS/ACI
- CI/CD tools such as Jenkins and Cisco Test Code Manager