SENIOR SOFTWARE ENGINEER

Summary

Efficient and skilled Senior Test Engineer with 15 years of experience, able to handle multiple simultaneous tasks with complete accuracy and professionalism. Outstanding knowledge of LabVIEW, LabWindow, and TestStand for test automated software

Highlights

- Java Web development, Tomcat, Java/Java script, jQuery, jSON, Struts, HTML/JSP, Bootstraps, Oracle/MySQL database, C/ C++, Perl, Visual Basic, C, Assembly, Python, MS Office and Excel, Agile
- Solid hands-on experience in test equipment such as HP34970A, HP 6050A, HP 8648A-1EP RF Signal Generator, HP digital signal oscilloscope, Agilent 5313A Universal Counter, ATE AVANTEST T5382A, Coherent Optical Power Measurements, NI DAQ system(PCI,PXI & cDAQ & cFP), RS-232, RS-485 and GPIB instruments
- Hands-on experience in Digital and Analog circuit design using VHDL, LOGIC VIEW, ALTERA MAXPLUS-2, ASSEMBLY, and HSPICE/PSPICE MS Office 2013 / NT / UNIX/Linux
- Software: LabVIEW, Eclipse, SQL Development, TestStand, Altera MaxPlus, Logic View, Tomcat Server, Oracle Form, LabWindow/CVI
- Programming: Java, JavaScript, JSP, HTML/CSS, jQuery/Ajax, Struts (framework), Perl, C/C++, Assembly, Pascal, Python, PHP, SQL, VB, Visual Studio
- Hardware: NI I/O DAQ cards, IAR Embedded WorkBench, HP 8648A-1EP RF signal generator, Advantest Memory System Test T5382A, HP Digital oscilloscope, HP 53131A Counter/Timer, Ocean optics, Optical power meter FieldMaxII, GPIB, RS-232, RS-485, I2C, Spectrum meters, Sorensen optical power supply, Lumina optical power supply
- Structural, Behavioral and Hardware, Circuit and IC modeling.
- Analysis, Design and Functional Test of Digital and Analog Circuits.
- Generate Test Plan, Procedure, and Hardware Fixtures.
- Soft Skill
- Good oral and written communication skills (with technical and non-technical staff).

Experience

09/2009 to Current
Senior Software Engineer Surveymonkey ï¼ Tampa , FL

- Worked cross-functional in both hardware test/burn in and database web application development Designed and wrote automation test programs in LabVIEW for optical semiconductor products Designed and implemented software programs to run asynchronously multiple optical devices in burn in test Wrote software for optical device life test Developed and supported Interactive UI Web Pages for production to process the job flow between different groups, front-end and back-end in semiconductor laser products Designed and implemented Web pages for manufacturing engineer traveler Developed Web pages utilizing to create, edit or view a work process for Wafer task, Cleaving and Coating reports, task scheduler, Shipment task, manufacturing engineering traveler, and Search/Display a test result from test stations Wrote Java codes to implement automate grabbing all the raw test data files from multiple test stations and parsing to the Oracle DB Consolidated Web apps running in Java Web server and Tomcat server into one Tomcat server Wrote SQL scripts to manipulate the production data in Oracle database Supported manufacturing database on data transactions.

09/2008 to 04/2009
Senior Test Development Engineer Analog Devices, Inc. ï¼ Massachusetts , MA

- Developed and programming JIG switch tester in LabVIEW.
- Developed RI chamber in accommodate universal products.
- Worked with CM and Test fixture suppliers on test fixture design.
- Generated acceptance test and validation protocol.

02/2005 to 09/2008
Senior Test Engineer Microsoft Corporation ï¼ Fargo , ND

- Worked with design engineer and production to determine test requirements for switching power supply Designed appropriate test fixture for functional test switching power supplies (AC/DC, DC/DC) to meet test requirements Designed burn-in chambers for product testing Wrote documents to support test fixture and test program Wrote test procedures for manufacturing testing Implemented fixtures for use in engineering design verification and quality assurance Developed and maintained all test fixtures as needed Collaborate with the design engineering group to identify and integrate test requirements in the project conceptualization phase Provided direct support to production and design engineering Using LabVIEW to write functional test for power supply products and programming checksum MDA Test on PCB.

09/2003 to 01/2005
Associate Engineer Aes Corporation ï¼ Huntington Beach , CA

- Wrote LabVIEW application for filling drug onto Stents in production Wrote codes in VBA utilizing for HPLC Data Analysis Wrote application in VBA to extract data as criteria and update database Wrote an Excel macro use for Drug analysis in R&D such as formula of drug and solution Designed and created a template for measuring dimension of Stainless steel Stents and balloon functional testing form.

07/2000 to 07/2003

Hardware Development Test Engineer MainStreet Networks ï¼ City , STATE

- Established PCB Circuit test methodologies, failure analysis Using LabWINDOW/CVI to write automation program to perform a functional test on power supply IC board, Pager and Meter IC Board Wrote the test plan, procedure using in manufacturing Designed test fixtures for test Wrote the program to utilizing IC test Web UI designed and tested.

01/2000 to 06/2000
SRAM Test Engineer Alliance Semiconductor ï¼ City , STATE

- Created test plan and socket program for SRAM chips.
- Utilizing ATE Avantest T5382A for programming and test.
- Pattern (MPAT) programming.
- Scramble (SCRAM) programming.

Education
1999
Bachelor of Science Degree : Electrical Engineering University of California ï¼ City , State Electrical Engineering
1997
Mission College ï¼ City , State
06/2000
Certified LabVIEW , LabWINDOW/CVI * National Instrument Academy ï¼ City , State
09/2006
National Instrument * Certified TestStand
Languages
English, Vietnamese.
Personal Information
Ability to prioritize responsibilities and work independently. Ability to work effectively as a member of a team. Quick learner and aptitude for learning new technologies. Strong analytical and goal-oriented problem solving skills. Excellent attention to detail, methodical and meticulous. Quality results oriented.
Additional Information

- Ability to prioritize responsibilities and work independently. Ability to work effectively as a member of a team. Quick learner and aptitude for learning new technologies. Strong analytical and goal-oriented problem solving skills. Excellent attention to detail, methodical and meticulous. Quality results oriented.

Skills
Agile, Ajax, automate, automation, C, C++, circuit design, oral, Hardware, CSS, Data Analysis, database, DC, Eclipse, edit, engineer, engineering design, English, failure analysis, filling, Functional, HP, HPLC, HTML, PHP, Java, JSP, JavaScript, Java script, jQuery, jSON, LabVIEW, laser, Linux, Logic, manufacturing engineer, Memory, Excel, MS Office, NT, modeling, MySQL, Operating System, Oracle, Oracle database, Oracle DB, oscilloscope, Pascal, PCI, Perl, power supplies, power supply, product testing, Programming, PSPICE, Python, quality assurance, scripts, SQL, Struts, switch, test equipment, Tomcat, UNIX, validation, VHDL, Vietnamese, VIEW, Visual Basic, VBA, VB, Visual Studio, web application development, Web server, Web development, Web Pages, WorkBench, written communication skills