James Raitter

2825 Bannock Ave. Nampa, ID 83686
Cell: 208-989-2190
jraitter@cableone.net

OBJECTIVE: Seeking an engineer position where I can apply my considerable experience in software development, quality assurance, test engineering, network management, and strong aptitude for problem solving to a challenging career here in the Treasure Valley area.

TECHNICAL SUMMARY:

- **Languages:** C# (.NET), C++, C, Python, TCL, JavaScript, HTML/CSS, some Java, exposure to SQL.
- **Software:** Visual Studio, Git, JIRA, ALM, Quality Center, MS Office, learning Eclipse and Selenium
- **Operating Systems:** Windows (Win10, Win7, CE) UNIX, and Linux. Familiar using Android and IOS
- **Hardware:** Personal computers / laptops, LaserJet printers, network switches and wireless routers.
- **Networking/Protocols:** TCP/IP, Telnet, FTP, PML/SNMP, XML, DNS, Gateways, Sub-nets.
- **Test Disciplines:** Full automation, step by step manual, and exploratory; black box and white box.

PROFESSIONAL EXPERIENCE:

- Substantial experience testing software, and firmware on hardware through manual, exploratory, and automated tests. Design test flows for new features. Write automated tests in an agile/scrum environment. Use exploratory techniques to quickly analyze and characterize firmware defects.
- Responsible for test plan design for the qualification process. Guide defect finding methods. Initiate and conduct group meetings and track progress of current projects and tasks.
- Software developer on a development team designing, assembling and delivering new equipment. I would design the electrical schematics, determined which components to use, and developed all software. This would include the embedded firmware, the graphical user interface, and integrate 3rd party solutions.
- Embedded firmware development on 8052 microprocessor to control robotic automated test equipment.
- First level triage and characterization of possible defects found in the software being tested.
- Lead role on many different test teams. I would be responsible for interacting with the customer to determine deliverables required for testing and test development. Then lead a team of engineers and technicians to meet these goals before the project milestone dates.
- Automation Test Lead for a software team testing embedded firmware for laser printers. Review work requests, plan and schedule the work needed, deliver to deadlines, and document the process. Oversee a design meeting and code review process that increased quality and saved time.
- Equipment Engineer for improving the manufacturing process for a DRAM manufacturing company.
- DRAM Test engineer where I would characterize failing parts to determine usable quadrants.
- Experience as UNIX Network Administrator. Responsible for installing all new systems. Assign IP, patch network cables, entries into DNS database, update server files. Responsible for all software / license installation as well as up time on all systems.
- Designed and installed a Server/Client network in a small local business including a wired network switch, a wireless switch, a Server computer and ten client computers which could access the server. Setup and configured all components for authentication and security.

PERSONAL EXPERIENCE:

- **Problem Solving:**
  - Successful in quickly identifying and solving problems under high stress conditions.
  - Excellent skills in troubleshooting customer's problems and resolving the issue in a timely manner.
- **Self-motivated**: Confident in making proper decisions both individually and as part of a team to meet targeted deadlines.
- **Teachable:** I learn new concepts, protocols and software syntax quickly. Desire new challenges.
- **Strong Communicator:**
  - Proven ability to communicate with various personalities to include customer, upper management, and co-workers, including personnel in other countries.
  - Comfortable in front of large groups or leading small group discussion meetings.
  - Instructional experience from equipment training to teaching classes.
- **Organization:** Very well organized allowing me to multi-task in a fast-paced environment.
- **Technical Writing:** Documentation experience writing technical manuals and training guides.

EMPLOYMENT HISTORY:
2003 – 2019   Printer Firmware Test Engineer Lead, Experis Group, Boise ID (Onsite at HP Boise)

- <u>Test Engineer III Lead</u> – Oversee a team of engineers and technicians that test printer hardware. Receive work requests, determine resources, request equipment, distribute test development, schedule test execution, and track test development and report test results.
- <u>Test Engineer III</u> – Design manual and automated scripted tests for firmware testing on printer hardware. Using emulators and Engines, develop tests to look for possible defects in the way hardware drivers interact with system firmware.
- <u>Software Engineer IV</u> – Lead role for all ownership and responsibility for all regression testing. Schedule the development and maintenance of scripted regression tests. Delegate projects and responsibilities to other script developers. Plan and Design test improvements such as code architecture. Maintain coding standards and review all code written by other developers.
- <u>Software Engineer III</u> – Design test scripts applying engineering principles to characterize and debug system firmware in color laser printers. This includes writing TCL test scripts and using exploratory testing methods to qualify the software written by system level developers. It was also my duty to maintain documents that allowed others to follow the testing process and compiled data that would summarize the results of that testing.

1989 – 2003   Research & Development Engineer/Software Engineer, Micron Technology, Inc. Boise ID

- <u>R & D Engineer</u> – Design and develop software and electrical circuits for new equipment. Create Graphical User Interfaces (GUIs), embedded real-time software development, CAD electrical schematics, document processes and train technicians. Pioneered the way in bringing Laser Marking Equipment to the test floor. Developed firmware for laser marking machines, pick and place machines, and others.
- <u>Software Engineer III</u> – Enhance software running on manufacturing equipment. Make improvements to systems and integrate into existing framework. Also administer and maintain UNIX/LINUX network on production test floor. Monitor all systems, install new servers and workstations, and handle all problems.
- <u>Test Engineer III</u> – Write and debug test programs used to test DRAMs. Improve current test flow and reduce test times. Work with technicians in troubleshooting tester problems.
- <u>Test Engineer</u> – Maintain all engineering aspects of production from software development to system administration. Oversee customer qualifications, interface with planning, and insure product quality.

ACCOMPLISHMENTS:
U.S Patent US20050014327A1 Sequential unique marking.

EDUCATION:
BSEE, Electrical Engineering -- Arizona State University, Tempe, Arizona.

Other Education:
Currently enrolled at Boise Code Works, Full Stack Development, Spring 2020
Intro to C# on site at HP, Russ Harlor, Fall of 2008
JavaScript Fundamentals at Executrain Dec of 99
HTML Fundamentals at Executrain Nov of 98
C++ at NNU summer session of 98
Intro to C at BSU, fall semester of 93