RICHARD CHRISTOPHER GINGRAS JR

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SOFTWARE ENGINEER

Create Innovative Solutions that Improve Processes, Increase Efficiency, and Solve Problems

Software Developer with Electrical / Computer Engineer degree highly focused on new and exciting technology including Open Source. Known for taking ownership of projects and seeing through to goals and beyond. Passionate about continue learning and adding to consistently increasing skill set.

TECHNICAL SKILLS

Languages: BASH, Shell, Python, C/C++, Assembly, Matlab, Java, Labview
Tools: Git, Visual Studio Code, Docker, Podman, CICD, Jenkins, Travis, Kubernetes, OpenShift
Operating Systems: GNU / Linux (RHEL, CoreOS, Ubuntu), z/OS, Windows
Hardware: Microprocessors, Microcontrollers, DSP, RTOS, Multiplexer, EEPROM, SRAM, I2C, SPI, ADC, DAC, RS-232

PROFESSIONAL EXPERIENCE

AffirmLogic, McLean, VA 22102 2020-2020
Quality Assurance Engineer **2020 – 2020**
Test and verification that the software that is being developed performs as described with no errors or defects.
- Led effort to automate the build and test process to enable faster turnaround time for developers to know how their code changes performed compared to previous versions.
- Generate reports using both existing and new test cases to give developers a picture of how their code had performed in detecting malware.

IBM, Poughkeepsie, NY 12601 2015 - 2020
Linux on Z Solution Test Software Developer – Red Hat Partner Engineer **2018 - 2020**
Test IBM / Red Hat products on the IBM Linux on Z environment in a customer-like environment to discover bugs before products reach customers.
- Led initiative to automate testing for both OpenShift Container Platform as well as Hyper Protect Virtual Server using Jenkins and Travis to have a more reliable testing environment.
- Guided team members in development of common practices and standards, aiding in creation and maintenance of automation tests and workloads.
- Designed and maintained 148 automated tests and documentation over 18 months including manual testing for command line, API, and web interfaces, allowing for verification of software integrity before releasing to customers and making future testing quick and easy.
- Collaborated with development teams when bugs arose during test, contributing as much detail as possible, allowing development to easily debug problems to fix; followed through with feedback to development teams on fixes to verify defect had been resolved.

Function Verification Software Developer and Tester for Z File System **2015 - 2018**
Tested and verified ZFS as it came from Development and before it went to other test groups or to customers.
- Teamed with fellow function testers, constructing and executing a test plan for each new release.
- Utilized plan to test features, automating for future regression testing.
- Supported Function Verification test team in automating newly created tests, simplifying future regression testing.

UTC AEROSPACE SYSTEMS, Windsor Locks, CT 06096 2011 - 2015
ACE / Lean Intern **2011 - 2015**
Served on team responsible for continuous improvements of assembly floor for aircraft HVAC as well as jet engines.
- Led small team of 4 to design and manufacture tool and part storage, improving quality of assembly on shop floor; worked with part picking and assembly employees, ensuring storage design would function and be easy to handle.
- Developed and maintained several tools utilized by coworkers to automate tedious and repetitive tasks, as well as streamline data entry, reducing work time from 3+ hours to less than 10 minutes.
- Participated on team to redesign part storage and collection floor space boosting efficiency of floor space usage and precision of part collection.

EDUCATION

Bachelor of Science (BS), Electrical Engineering with Computer Engineering Concentration,
Western New England University, Springfield MA
Extensive coursework in Real-Time Embedded Systems, Real-Time Embedded Kernels, Firmware Embedded Systems, Assembly Language and Digital Signal Processing.