

Software Engineer Software Engineer Extreme Software Engineer Houston, TX Authorized to work in the US for any employer Work Experience Software Engineer Confidential Clients - Houston, TX February 2018 to Present Persistence framework enhancement for FAT application Port C++ Opto 22 communications library to C# .NET core for Linux Smart phone application in Xamarin .NET desktop app to load legacy VB6 forms. Test Automation Engineer (3Par) HEWLETT PACKARD ENTERPRISE - Houston, TX June 2016 to January 2018 Worked with storage controller firmware developers developing and maintaining Python test scripts, interpreting test results, and filing defect reports. Developed and collaborated with other L2 engineers to improve the L2 library. Created a novel approach regarding the use of popular storage technologies in enterprise storage schemes and filed two applications on HPE's patent website. Reduced test station recovery time approximately in half with standardized file system images. Enhanced Python L2 test library with several improvements so that test scripts ran more accurately. Software Engineer (SWVT) HEWLETT PACKARD ENTERPRISE - Houston, TX September 2010 to April 2016 Developed and executed automated test cases in C++ for the L1 Software Verification Test group and provided infrastructure solutions for the manual testers. Worked with SAS switch firmware developers in an Agile/scrum environment, interpreting test results, and filing defect reports. ? Volunteered and created a multi-user test result database during off hours because an immediate need existed for one, then administered and supported it. ? Enhanced lab procedures with multi boot operating system scheme for MBR and UEFI servers, greatly increasing manual testing productivity. ? Performed BIOS test and validation on HP s first UEFI servers (Gen 9). Updated lab procedures and scheme for UEFI multi-boot, so testing OS boot interaction with UEFI release candidates could be completed on schedule. ? During supervisor absence, maintained product web pages for hard drive and controller firmware update packages. ? Developed SQL database for second generation test result collection, test plan design, and test scripting. Software Developer ALLESTEC CORPORATION - Kingwood, TX June 2010 to March 2011 Designed and wrote a .NET factory acceptance test application for their ONGUARD temperature sensors. Worked with firmware developer to resolve device ID issues encountered during extended testing. Delivered binaries

with installers ahead of schedule. Trained fabrication personnel to use the application. Software Project Engineer & Manager ENERGY CONSERVATORS INC - Humble, TX February 2009 to July 2010 Designed, wrote, and integrated a Siemens PLC system for redundant radio-based remote emergency shutdown platform control on the Petrobras Chinook project, a 40-billion-dollar deep water Gulf of Mexico production facility. Created detailed documentation for panel operation and troubleshooting. Worked with FMC engineers during factory acceptance testing and post-installation of panels. Managed HMI software project to communicate with the panels using automation standard protocols. Firmware Auditor HEWLETT PACKARD - Houston, TX April 2008 to January 2009 Performed manual testing of the ExDS system, a high capacity, high availability storage array. Created new test cases. Created educational documents regarding redundant systems for new hires. Eliminated a severe test lab bottleneck by using the server's browser-based configuration interface instead of the standard rack console.\ Software Engineer THE MUDLOGGING COMPANY USA LP - Houston, TX June 2003 to March 2008 Designed solution architecture and performed SDLC for the following projects: An alkane gas series integrator for use with standard and FID gas chromatographs, relieving the company's dependence on irreplaceable legacy integrators. An asset tracking system with SQL server, client software, barcode scanners and printers, reducing the company's lost equipment costs by over 20 percent. A gas referencing system that was an industry first. Remote terminal units for the company's Mexico division, replacing the previous design. Installers, help, and documentation for all of the above. Education BSEE in CS University of Southwestern Louisiana - Lafayette, LA Skills SQL (6 years), C++ (6 years), SCRIPTING (6 years), PYTHON (2 years), .NET (3 years), Software Development (10+ years), PLC Programming (4 years), C++ (3 years), C#, Linux, C, Git Links <http://www.linkedin.com/in/cornelius-fruge> Patents Brushless electrical machine for use as motor or generator. (#4,866,321)

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=%2Fmetahtml%2FPTO%2Fsrchnum.htm&r=1&f=G&l=50&s1=4,866,321.PN.&OS=PN/4,866,321&RS=PN/4,866,321> 1989-09 This machine was designed for wind and low head hydro. Additional Information

Technical Skills: Operating Systems (Windows, Debian, Ubuntu, RHEL, SUSE) Compiled Languages (C, C++, C#, Visual Basic) Scripting Languages (Python, Perl, Bash, T-SQL, MSDOS) Development and Build Environments (Visual Studio, Pycharm, Codeblocks, Jenkins, Subversion, Collaborator)

Name: Karen Hall

Email: harrisonann@example.com

Phone: (235)314-6918