

Michael Gerard
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Objective

Software Quality Engineer and Tool Developer.

Experience

Mass Storage SQA Engineer, Apple Computer;
2012

Cupertino, CA. 2000-

I was responsible for qualification and regression testing of Apples internal and third party mass storage drivers for consumer Desktop and Portable computers. Responsibilities included lab setup and maintenance, remote automated installation and setup, Test Design, Test Planning, Tool Authoring, automated testing and reporting, result database design, debugging and failure analysis.

Authored Test Plans For SATA, Thunderbolt, USB and FireWire. QA Lead Thunderbolt HSIO Consumer Desktop and Portable. QA For AppleTV Mass Storage and User Experience.

Authored/maintained RollCall, the groups main IOKit Mass Storage discovery probe in Obj-C.

Summary of SATA qualifications 2007-2012

Hands-on and Automated testing of all consumer (Non-Enterprise) desktop and portable computers from Apple. Includes Serial ATA and SAS as well as maintenance, firmware and installation.

I wrote the Test Plan for AHCI SATA HDD/SSD as well as eSATA.. This included setup, EFI support, features(NCQ/TRIM/etc.), baselines, performance, power management and data integrity.

I was the test lead for IOAHCIPortMultiplier and Thunderbolt development.

Since 2011 I've had the opportunity to work on unreleased projects which are unfortunately under Non-Disclosure Agreements. I can state that I have at least 2 years of direct experience automating the testing of SSD's on the PCI bus. My focus since leaving Apple has been Python automation.

Test Engineer, TechMahindra; Assigned to Google. Mountain View , CA. 2014-2015 (Nov.)

Platform Services – New Product Integration. Focused on remote testing and maintenance of storage and peripherals on clusters of Linux/Ubuntu systems. Authored and maintained tests for retiring Autotest automation during conversion to proprietary systems. I primarily used Python 2.7x and bash, with some C++ to automate performance and data integrity testing. I am trained in the use of standard Google development technologies such as protocol buffers, Blaze, Cider and Google Docs. I was also tasked with regularly qualifying kernel and Tool set builds for my components, as well as overflow from a variety of other groups.

A/V Production Manager, Unusual Productions. 43 Dore, San Francisco, CA. 94015 2011 - 2014

I was responsible for light/sound and some construction for a number of local theater productions as well as occasional composition and DJ work. Entertainment references available on request.

Education

DeAnza College 2005-2006 Operating Systems Concepts, C, Advanced C, C++.

Skills

Platforms: Unix, Mac OSX, iOS, Linux, Windows XP/7/8.

Programming: Eclipse, C, Objective-C, C++, My/PostgreSQL; XCode, GDB, LLVM, Subversion.

Scripting: bash, Python, uTest, RAFT, Autotest, Applescript.

Technologies: PCIe, SCSI, IDE, USB, IEEE 1394A, IEEE 1394B, ATA, ATAPI, SATA, HID]

Quality Assurance: Agile Methodologies, White/Black Box Testing, Regression Testing, Test Automation, Automated Reporting and Metrics, Test Plans, Test Cases, Test Case Database Design.