**Michael Rolland Gerard Santa Clara, CA 95051** [**mgerard@mac.com**](mailto:mgerard@mac.com) **(415) 290-7124**

**Software Quality Engineer and Python Developer.**

**Experience**  **Tech Mahindra. Project Manager at Google. Mountain View, CA. 2014 -2015** I specialized in continuous testing and triage of mass storage device drivers and utilities against a fleet of approximately 2000 remote Linux/Ubuntu systems. I authored and ported Autotest automation scripts during it’s transition to newer proprietary systems. I primarily used Python 2.7x and bash with some C++ to automate performance, data integrity and feature verification testing against Solid-State Drives. These tests required extensive support for operation across restarts and crashes, as the test units were located over seas. 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.

**Apple Computer. Mass Storage SQA Engineer. Cupertino, CA. 2000-2012** Qualification and regression testing of Apples internal and third party Mass Storage drivers for consumer Desktop and Portable computers. Highlights included lab setup and maintenance, remote automated installation and configuration, 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 for SATA Port Multiplier and Thunderbolt HSIO for Consumer Desktop and Portables. Also QA Lead for AppleTV Mass Storage and User Experience. Authored/maintained RollCall, the groups main IOKit Mass Storage discovery probe in Objective-C. It was Notification based, asynchronous and reentrant for operation across Restart and Sleep. It had a colorful GUI, emailed on events and uploaded/compared device properties with a postgreSQL database.. Completely removed human error by reading from devices directly.

**Unusual Productions. A/V Production Manager. San Francisco, CA. 2011 - 2014** Automation tools used in production were Max/MSP, Quartz Composer, Adobe Director/Lingo and Python (pyqtgraph /pyQt) My activities involved interactive multimedia installations, music compositions, stage management and construction for a number of local theater productions and themed nightclubs. Additional rotations as DJ, Sys-admin and facilities security as needed.

**Current and Previous Projects**

**Theatrical Technician SF Bay Area / Freelance Python Development 2016-Present**

Local Film Maker import/Transfer asset DB from mySQL to couchDB

Great Star Theater DMX Lighting Automation with QLC+

Local Business Research/Upgrade Security cameras & DVR , DDNS

The Konservatory Light board Programing, Sound, DJ.

Guitar Center Pro-Audio Sales and Support

**Education**

De Anza College OS Concepts, C, Advanced C, C++. 2007-2009

**Skillset**

**Platforms:** Unix, Mac OSX, iOS, Linux, Windows, MySQL, postgreSQL, LAMP.

**Programming:**  Eclipse**,** XCode**,** C, Objective-C, C++, Git, Subversion, GDB, LLVM

**Scripting:** bash, Python, uTest, RAFT, Autotest, Applescript Studio

**Technologies:** PCIe, SCSI, IDE, USB, IEEE 1394A, IEEE 1394B, ATA, ATAPI, SATA, NVMe

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

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