Abraham Chen

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EXPERIENCE

Software Engineer   Aug 2021 – Present
Haas Automation   *Oxnard, California*

2021 -
- Learned software development process by working with Model View Controller (MVC) Java AWT and Swing GUI
- Adapted personal script for manual process into shared developer tool by using Perforce HelixCore Command-line

2022 -
- Overhauled user interface and refined existing logic implementation of multiple CAN device firmware updater
- Modified software platform and added improvements to core bash script used for manual software update
- Encouraged healthy work life balance by reminding coworkers to take breaks

2023 -
- Improved usability of custom graphing library used in tool for gathering Motion Control diagnostic data
- Added and tuned RFB protocol settings for mobile device VNC system to provide way to calibrate new camera, improving latency of image frames between broadcast and live video feed by roughly 30%
- Authored and maintained extensive documentation on how to upkeep projects and reduce development pains.
- Collaborated with overseas contractors and oversaw code reviews to maintain health of the codebase.

2024 -
- Wrote software change to read amplifier fault bits through interpreting Functional Requirement Specification (FRS), and validated pulse widths by working with members from Software QA and Electrical Engineering departments.
- Resolved critical bug without code change, preventing multiple scheduled emergency hot-fix updates, and resulting in hundreds of hours of saved engineering test time, and increased product confidence and morale.

EDUCATION

California State University, Northridge   Northridge, California
B.S. in Computer Science with honors   *Graduated May 2021*

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript
Scripting: Bash, Windows Batch, PowerShell
Protocols: IPv4, IPv6, VNC (x11vnc, noVNC) / RFB, SMB Protocol Suite (1.0, 2.0, 2.1 and mount.cifs)
Operating Systems: Windows, Linux (Lubuntu), Embedded Linux (Ubuntu, Yocto)
Testing Frameworks: JUnit, Mockito, PowerMock
Testing Methodologies: Manual, Unit, Acceptence, Integration, Regression
Developer Tools: Git, Perforce, PuTTY, RealVNC, VirtualBox, WireShark
Libraries: ZXing (QR Codes), noVNC
Books Read: Effective Java (Favorite), Java Concurrency in Practice
Current Reading: TCP/IP Illustrated, Designing Data Intensive Applications, Software Engineering at Google

CERTIFICATES

Linux Foundation Training:
My love of Linux began here.
Undertook 128 hours of paid professional led Linux training totaling $13,000 to further understand Linux development

LFD401: Developing Applications For Linux,
LFD420: Linux Kernel Internals and Development,
LFD430: Developing Linux Device Drivers,
LFD440: Linux Kernel Debugging and Security

AWARDS

Best Google Cloud Platform Hack at SacHacks, Google - Nov 2018
Second Runner Up for Two Year Colleges at Southern California, ICPC - Nov 2018