

Miles J. Nielsen

Campbell, CA • Miles.Nielsen@engineer.com

SUMMARY

Quality & test engineer experienced in automated and manual testing with software and hardware. Comfortable in regulated, fast-paced environments and working across multi-functional teams. Proficient with documentation, hardware assembly, and logistical support. Able to perform in development- and production-oriented environments.

SKILLS

Languages: BASH, Python, SCL,

OS: Linux [Linux Mint, RHEL, Ubuntu], Unix [Solaris], QNX, Windows, iOS,

Applications/Tools: Iatest [Master, IT], Jira, MS Office Suite, Libre Office, Latex, Confluence, Kinesix Sammi, TestStand, Wireshark,

PROFESSIONAL EXPERIENCE

Google, Inc. (Insight Global Solutions) (Mountain View, CA)

QA Engineer

07/16 – Present

- ❖ Conducted image-quality analysis comparisons of smart-phone cameras to support IEEE P1858: Standard for Camera Phone Image Quality (CPIQ)
- ❖ Performed webcam image-quality analysis study to assist in-house upgrades and to re-establish internal webcam image quality specifications
- ❖ Collected smart-phone images to compare auto-focus and image-quality capabilities between cellphones and internal cellphone software builds
- ❖ Modified python scripts to improve automated image-capture processes

Freelance Engineer (Campbell, CA)

06/16 – 07/16

- ❖ Assembled hardware involving PCBs, sensors, sealing gels, and gaskets
- ❖ Wrote hardware assembly procedures from verbal instructions
- ❖ Inspected, sorted, and organized inventory for manufacturing quality
- ❖ Developed automated scripts using Python and BASH

Google, Inc. (Tekmark Global Solutions) (Mountain View, CA)

01/15 – 08/15

Camera Systems Support Tech II

- ❖ Assisted in commissioning and maintaining production clean-room including supply management and cleanliness to 10k clean-room standard
- ❖ Coded Python scripts to support data processing and document creation
- ❖ Created and maintained documentation using LaTeX and MS Word

BAE Systems (Amtec) (San Jose, CA)

06/13 – 12/13

Software Test & Integration Engineer

- ❖ Developed, executed, and reviewed test sequences using Teststand and Wireshark to verify Fire Control software for a ground combat vehicle
- ❖ Integrated python scripts to simulate environmental conditions into test environment

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Lockheed Martin, Space Systems (Sunnyvale, CA) 05/09 – 05/13
System Integration & Test Engineer; Cleared DoD Secret

- ❖ Tested & verified Command & Data Handling subsystem for SBIRS GEO-1 and GEO-2 satellites through functional, vibration, and thermal-vacuum testing
- ❖ Performed functional, environmental, and acceptance tests on mirror Pointing Control Assemblies [PCA] for SBIRS GEO-3 and GEO-4 satellites
- ❖ Set up and tore down test beds for satellite hardware testing

General Dynamics Mission Systems (GDAIS) (Various Locations) 10/04 – 05/08
Technical Support Field Engineer; Cleared DoD Secret

- ❖ Performed integration & acceptance testing on SSBN-730 and installed SSBN-731 missile launch systems to convert submarines to Trident II D5 configuration
- ❖ Performed design quality testing for Trident II D5-LE
- ❖ Created documentation detailing architecture and operation of legacy hardware and software to support next-generation design

PROJECT EXPERIENCE

Personal (Campbell, CA) 09/10 – Present

- ❖ Developed python scripts to collect financial data for hard-coded and user-defined mutual funds and ETFs from a financial website and outputted data to desktop
- ❖ Wrote python script to encode and decode a user-provided messages based on a customized method of encryption
- ❖ Developing python script to simulate Number Stations with customized selection of spoken words

VOLUNTEER EXPERIENCE

Cinequest (San Jose, CA) 02/14 – Present
Projectionist

- ❖ Ensured preshow and film projections executed on time with flawless audio/visual delivery including appropriate theater lighting
- ❖ Enabled speaker and filmmaker Q&A sessions before and after film viewings to facilitate audience participation and engagement by executing proper microphone usage
- ❖ Provided filmmakers and audience members a complete movie-going experience

EDUCATION

Alfred University (B.S., Electrical Engineering)