

Miles J. Nielsen

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SUMMARY

Engineer experienced in automated testing with software and hardware. Comfortable in regulated, fast-paced environments and working across multi-functional teams. Proficient with documentation, assembly, and logistical support.

SKILLS

Languages: BASH, Python, SCL,

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

Applications/Tools: ClearCase, ClearQuest, Confluence, DOORS, Enterprise Architecture, JIRA, Kinesix Sammi, LaTeX, TestStand, Wireshark,

PROFESSIONAL EXPERIENCE

Freelance Engineer (Campbell, CA) 08/15 – Present

- ❖ Assembled hardware involving PCBs, sensors, sealing gels, and gaskets
- ❖ Wrote official assembly procedures from verbal instructions
- ❖ Sorted, organized, and inspected inventory for 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

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

EDUCATION

Alfred University (B.S., Electrical Engineering)