Tyler Brennan

INTEGRATION AND TEST ENGINEER

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Summary

Integration and test engineer with 4 years building and testing small satellites and science instruments, from flight hardware delivery through environmental test. Writes test software in Python, C++ and LabVIEW on Linux test stations and tracks every anomaly in JIRA to keep integration on schedule.

Skills

- System Integration
- Validation
- Python
- C++
- LabVIEW
- MATLAB
- Linux
- JIRA
- Data Analysis
- Engineering Drawings

Experience

Integration and Test Engineer 05/2024 - Present

Front Range Spacecraft Systems Littleton, CO

Builder of small satellite buses for government and commercial missions.

- Integrate harnesses, avionics and payloads on **3** small satellites, working from engineering drawings and procedures.
- Write Python and C++ test scripts on Linux that automate 200+ functional checks per spacecraft.
- Run thermal vacuum and vibration campaigns, completing validation of 2 buses ahead of ship dates.
- Track and close 85 test anomalies in JIRA with root cause and corrective action.

Associate Integration and Test Engineer 06/2022 - 04/2024

Boulder Creek Instruments Boulder, CO

Maker of space science instruments and detectors.

- Built LabVIEW test stations for 4 instrument types, cutting manual test time 50%.
- Completed data analysis in MATLAB on detector calibration runs for 12 flight units.
- Assembled 40 instrument units under cleanroom and ESD controls with zero escapes.
- Planned the integration sequence for 12 flight units, meeting every scheduled delivery date.

Integration and Test Intern 05/2021 - 08/2021

Clear Creek Space Hardware Golden, CO

Summer internship on a CubeSat production line.

- Assembled 6 CubeSat solar panel harnesses from engineering drawings and torque specs.
- Executed 20 functional tests on Linux test stations and filed the results in JIRA.
- Measured mass properties of 4 CubeSat units ahead of vibration testing.

Education

Bachelor of Science 05/2022

Colorado School of Mines Golden, CO

Mechanical Engineering

Certificates

IPC/WHMA-A-620 Certified IPC Specialist (CIS)

IPC

08/2022