Aisha Patel

// Systems Test Engineer

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> SUMMARY

Systems test engineer with 4 years testing flight avionics and radar electronics for aerospace and defense customers. Writes and runs verification procedures, builds data acquisition setups, and uses Python, MATLAB and SQL for data analysis that turns test runs into clear pass or fail evidence.

> SKILLS

• Verification • System Integration • Data Acquisition • Data Analysis • Python • MATLAB • SQL
• Oscilloscopes • Debugging • Troubleshooting

> EXPERIENCE

Systems Test Engineer 08/2023 - Present
Space Coast Avionics Corp. Melbourne, FL
Maker of flight control and mission computers for military and commercial aircraft.

- Write and execute **45** verification procedures for a flight control computer, covering 600 requirements.
- Build data acquisition rigs with 120 channels and automate test sequences in Python.
- Lead troubleshooting of hardware and software faults during system integration, closing 70 discrepancy reports.
- Record test results in a SQL database and publish MATLAB trend reports for each software build.

Test Engineer 06/2022 - 07/2023
Indian River Defense Electronics Palm Bay, FL
Radar and communications electronics manufacturer.

- Isolated radar receiver faults with oscilloscopes during board debugging, raising first-pass yield to 94%.
- Ran 30 thermal and vibration test cycles to MIL-STD-810 on production units.
- Performed data analysis on 2 TB of test logs to find an intermittent timing fault.
- Wrote 12 automated Python test scripts for receiver acceptance testing, cutting test time per unit 40%.

Test Engineering Intern 05/2021 - 08/2021
Atlantic Coast Electronics Test Lab Melbourne, FL
Summer internship in an environmental and electrical test lab.

- Configured 15 thermal cycling tests on circuit card assemblies and recorded results in Excel.
- Measured power supply ripple on 40 boards with oscilloscopes and flagged 3 out-of-tolerance units.
- Documented 8 test procedures with photos for second-shift technicians.

> EDUCATION

Bachelor of Science 05/2022
Florida Institute of Technology Melbourne, FL
Electrical Engineering

> CERTIFICATES

ISTQB Certified Tester Foundation Level (CTFL) 03/2024
International Software Testing Qualifications Board