OLIVIA BENNETT

ELECTRONICS ENGINEER

CONTACT

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SUMMARY

Electronics engineer with 4 years of experience designing and testing analog and mixed-signal circuits for avionics and automated test equipment. Draws boards with schematic capture in Altium, models circuits in SPICE, and qualifies hardware with oscilloscopes, spectrum analyzers and signal generators. Holds an active Secret clearance.

SKILLS

- Oscilloscopes
- Spectrum Analyzers
- Signal Generators
- SPICE
- Schematic Capture
- Altium
- MATLAB
- Python
- SPI
- Troubleshooting

EDUCATION

Bachelor of Science

05/2022

The University of Alabama in Huntsville

Huntsville, AL

Electrical Engineering

EXPERIENCE

Electronics Engineer 07/2024 - Present

Redstone Ridge Avionics Huntsville, AL

Defense contractor building flight computers and sensor interfaces.

- Design power supply and sensor interface circuits for **5** flight computer boards using schematic capture in Altium.
- Model filters and op-amp stages in SPICE, matching measured noise to within 5% of simulation.
- Qualify boards with oscilloscopes, spectrum analyzers and signal generators across -40 to 85 C.
- Debug SPI links between data converters and processors, removing 3 intermittent faults before flight test.

Associate Electronics Engineer 06/2022 - 06/2024

Tennessee Valley Test Systems Madison, AL

Builder of automated test equipment for aerospace parts.

- Built 14 interface test adapters that connect missile electronics to automated test stations.
- Wrote MATLAB and Python scripts to analyze test data from 2,000 units a year.
- Handled troubleshooting of 60 returned assemblies and wrote failure analysis reports for the customer.
- Maintained drawings and parts lists in Excel so each test station matched its released configuration.

Engineering Co-op 01/2021 - 08/2021

Cummings Park Electronics Huntsville, AL

Co-op with an electronics contract manufacturer.

- Inspected 500+ circuit boards a month and logged solder defects for the process engineer.
- Assembled cable harnesses and test boxes for 4 customer programs.
- Measured board power rails with oscilloscopes during final test and logged out-of-tolerance units.
- Drafted 12 work instructions with photos for the assembly floor.