

Ishaan Elliott

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SUMMARY

Aircraft instrumentation technician with four years of hands on aerospace test experience across sensor installation, wire harness fabrication, soldering, strain gaging, fiber optic work, and aircraft electrical systems. Reads engineering drawings, **wire harness diagrams**, installation schematics, test documents, technical manuals, manufacturer specifications, and written instructions. Installs strain gauges, **fiber optic strain gauges**, thermocouples, and accelerometers using soldering, bonding, spot welding, mechanical fastening, crimping, and approved processes. Builds and routes **wire and fiber optic bundles**, operates **precision measuring equipment**, performs qualification and bench tests, interprets results, and troubleshoots configuration discrepancies. Maintains logs, tie ins, tool control, inspection readiness, ESD protection, PPE, hazardous material procedures, and safe work practices across hangar and airfield environments.

EXPERIENCE

Instrumentation Technician II

October 2024 - Present

Northwest Flight Test Services

Renton, WA

Supports aircraft test articles through instrumentation installation, wire and fiber optic fabrication, test setup, troubleshooting, documentation, and safe hangar operations. Works from drawings and test documents while coordinating technical discrepancies with engineering.

- Installed **strain gauges**, **fiber optic strain gauges**, thermocouples, and accelerometers on aircraft test articles.
- Fabricated and routed **wire and fiber optic bundles** using crimping, termination, bonding, and soldering.
- Set up qualification and **bench tests** with precision meters, documenting readings for engineering review.
- Troubleshot continuity, sensor response, wiring, and configuration discrepancies, then escalated drawing conflicts.
- Maintained **tool control**, work logs, tie ins, **inspection readiness**, calibration awareness, and ESD protection.
- Used lifts, PPE, and hazardous material procedures during hangar, airfield, and travel configuration work.

Instrumentation Technician

September 2022 - September 2024

AeroMetric Test Labs

Everett, WA

Built aerospace test harnesses and sensor leads, installed bonded sensors, operated electrical **test equipment**, and maintained controlled records. Supported inspection readiness through safe fabrication, accurate testing, and compliant material handling.

- Built electrical test harnesses and sensor leads from fabrication drawings and **installation schematics**.
- Installed bonded **strain gauges** and **thermocouples**, preparing surfaces and completing soldered connections.
- Operated multimeters, continuity testers, and data acquisition equipment to isolate basic circuit faults.
- Used torque tools, crimpers, drill presses, and cable tools under controlled shop procedures.
- Recorded configuration changes, test observations, and completed operations for required inspection.
- Handled solvents, adhesives, and resins using **Safety Data Sheets**, **PPE**, and approved disposal methods.

Aircraft Electrical Instrumentation Trainee

January 2022 - August 2022

Technical Training Lab

Seattle, WA

Completed supervised aircraft electrical training covering diagrams, harness fabrication, soldering, sensor installation, precision measurement, coordinate references, tool safety, and documented troubleshooting.

- Completed supervised training in basic electricity, wiring diagrams, harness fabrication, **soldering**, and measurement.
- Built practice wire bundles using aircraft routing, clamping, tying, connecting, and terminating methods.
- Installed sample **strain gauges** and **thermocouples** on training articles during bench exercises.
- Applied **three dimensional coordinate references** and dimensional data on training fixtures.
- Practiced hand tool, power tool, ESD, chemical handling, PPE, and inspection procedures.
- Traced wiring and sensor faults from schematic review through documented corrective action.

PROJECTS

Aircraft Sensor Test Configuration 📅 2024

Configured representative aircraft sensors, wire bundles, test equipment, and documentation for reliable engineering data collection. Applied drawing review, routing, termination, measurement, and troubleshooting methods.

Three Dimensional Instrumentation Fixture 📅 2022

Located simulated instrumentation points on training fixtures using coordinate references, dimensional data, sensor installation methods, and documented bench verification.

LEADERSHIP & AWARDS

- Recognized for dependable instrumentation support during aircraft test article preparation and inspection readiness.
- Selected for advanced supervised training in strain gaging, aircraft electrical systems, and precision measurement.
- Trusted by peers for practical troubleshooting of wiring, sensor response, and configuration discrepancies.

EDUCATION

Associate of Applied Science in Aviation Maintenance Technology

2022

South Seattle College GPA: 3.5

Seattle, WA

Coursework: Aircraft electrical systems, wire harness fabrication, soldering, precision measurement, aircraft maintenance

CERTIFICATIONS

- Electrical Crimping, Bond and Ground Qualification 📅 2026
- Hazardous Materials and PPE Safety Training 📅 2026
- Powered Industrial Truck Operator Training 📅 2025

TECHNICAL SKILLS

- **Aircraft Sensors:** Strain gauges, Fiber optic strain gauges, Thermocouples, Accelerometers
- **Wire Fabrication:** Wire harnesses, Fiber optic bundles, Wire routing, Wire termination
- **Electrical Assembly:** Soldering, Electrical crimping, Bonding, Grounding
- **Test Equipment:** Multimeters, Continuity testers, Data acquisition systems
- **Test Methods:** Qualification tests, Bench tests, Automatic tests
- **Technical Documents:** Engineering drawings, Wire harness diagrams, Installation schematics
- **Aircraft Systems:** Aircraft electrical systems, Aircraft mechanical systems, Three dimensional coordinates
- **Shop Tools:** Hand tools, Power tools, Drill presses, Torque tools
- **Safety Controls:** PPE, Safety Data Sheets, Hazardous material handling, Chemical disposal
- **Worksite Equipment:** Lifts, Hydraulic equipment, Mechanical equipment, Powered industrial trucks
- **Quality Records:** Work logs, Tie ins, Tool control, Inspection readiness
- **Protection Practices:** ESD protection, Static sensitive components, Calibration awareness, Configuration control

SKILLS

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|-----------------------|----------------------------|---------------------------|-------------------------------|
| • Strain gaging | • Wire harness fabrication | • Engineering drawings | • Aircraft electrical systems |
| • Thermocouples | • Soldering | • Installation schematics | • ESD protection |
| • Accelerometers | • Bonding | • Precision measurement | • Hazardous materials |
| • Fiber optic sensors | • Electrical crimping | • Test equipment | |

PROFESSIONAL AFFILIATIONS

- Aerospace instrumentation and aircraft electrical maintenance community.
- Aviation maintenance technology alumni network, South Seattle College.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST