

Sebastian Wilson

Engineering Technician, Electromechanical Systems

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STRENGTHS

- ⚙️ **Prototype support**
Supported hands on prototype builds from fabrication through checkout, learning each fault path as hardware changed.
- 🔧 **Cable workmanship**
Built and reworked production cables with careful routing and labeling; repeat builds became easier for peers.
- 🔍 **Fault isolation**
Traced intermittent issues against schematics and drawings, giving engineers useful evidence instead of guesses.
- ♥️ **Technical records**
Kept test notes, sketches, photos, and configuration details together; engineers gained clearer build history.
- 👥 **Team guidance**
Helped junior technicians read drawings and prepare tests, becoming a practical resource during difficult builds.

SKILLS

Cable building Electronics wiring

Schematics Engineering drawings

Prototype fabrication

Troubleshooting

Testing and checkout

Cable assemblies

Electronic circuits

Technical data collection

Engineering documentation

Prototype modification

Technical assembly Fault isolation

Continuity testing

SUMMARY

Engineering Technician with more than six years supporting **prototype electromechanical systems, electronic circuits**, photonics related hardware, production cable fabrication, assembly, checkout, testing, and troubleshooting. Converts schematics, **engineering drawings**, diagrams, layouts, flow charts, and written instructions into accurate bench level work. Builds and wires cable assemblies, investigates malfunctions, gathers technical evidence, and supports practical **corrective actions** under engineering direction. Maintains traceable technical data through reports, sketches, redlined drawings, photographs, test logs, and configuration notes. Progressed from supervised electronics assembly into independent prototype support and senior technician responsibilities. Brings disciplined workmanship, clear communication, safe execution, and readiness for on site mission engineering work. Eligible to obtain a Secret clearance.

EXPERIENCE

Senior Engineering Technician

Ocean State Prototype Systems 📅 January 2024 - Present 📍 Warwick, Rhode Island

Supports engineers during prototype fabrication, assembly, modification, checkout, and testing for low volume **electromechanical systems**. Guides junior technicians and maintains technical evidence that helps engineering teams resolve faults and update designs.

- Supported prototype **assembly** using **cable assemblies**, circuits, sensors, and mechanical components.
- Translated **schematics** and wiring **diagrams** into bench sequences, documenting questions before hardware changes.
- Traced intermittent faults against drawings, recording evidence that narrowed suspected failure points.
- Built **production cables** with routing, labeling, termination, continuity checks, and inspection.
- Maintained data packages with test observations, configuration notes, sketches, and photographs.
- Guided junior technicians through schematic reading, cable workmanship, test setup, and documentation.

Engineering Technician

Narragansett Electronics Laboratory 📅 March 2022 - December 2023 📍 Cranston, Rhode Island

Assembled prototype electronic and electromechanical hardware from controlled engineering information. Performed checkout, cable **fabrication**, fault isolation, authorized modifications, and technical reporting for development and limited production work.

- Assembled prototype hardware from schematics, diagrams, **layouts**, bills of material, and instructions.
- Executed unit **checkout**, comparing measured behavior with expected results in structured test logs.
- Isolated connector faults by following schematic signal paths, supporting practical repair decisions.
- Fabricated development cables, verifying pin assignments, continuity, labeling, strain relief, and routing.
- Compiled test readings and configuration details into **reports** and simple engineering diagrams.
- Applied authorized drawing changes and documented as built differences for accurate technical records.

Electronics Technician

Bayview Technical Manufacturing 📅 July 2020 - February 2022 📍 East Providence, Rhode Island

Built electronic subassemblies and cable harnesses for low volume technical equipment. Combined controlled drawing interpretation, wiring, continuity testing, production records, and evidence based issue escalation.

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Senior Engineering Technician at Ocean State Prototype Systems (2.7 Years)

● Engineering Technician at Narragansett Electronics Laboratory (1.8 Years)

● Electronics Technician at Bayview Technical Manufacturing (1.6 Years)

● Junior Electronics Technician at Harbor Technical Services (1 Years)

- Built electronic subassemblies and cable harnesses from controlled drawings and work instructions.
- Wired connectors, terminal points, and circuit assemblies while checking orientation against schematics.
- Performed continuity and functional checks, identifying opens, incorrect terminations, and workmanship issues.
- Used **sketches** and marked **drawings** to clarify recurring assembly questions for senior technicians.
- Recorded component, cable, and test information in production documentation for traceability.
- Compared hardware behavior with schematic paths, escalating suspected design issues with supporting evidence.

Junior Electronics Technician

Harbor Technical Services 📅 June 2019 - June 2020 📍 Providence, Rhode Island

Completed supervised cable preparation, connector assembly, basic electronics wiring, continuity testing, and technical recordkeeping for prototype and test fixture work. Built foundational skills through documented instructions and senior technician guidance.

- Completed supervised cable preparation, connector **assembly**, labeling, and basic **electronics wiring**.
- Read introductory schematics and wiring drawings before beginning assigned prototype builds.
- Conducted continuity checks and corrected documented workmanship defects under senior guidance.
- Organized bench records, parts information, and test notes for assembly traceability.
- Prepared sketches and annotated diagrams when physical routing differed from initial assumptions.
- Built foundational **troubleshooting** skills through written and verbal **technical instructions**.

PROJECTS

Prototype Cable and Checkout Support 📅 2025

Supported a representative prototype effort by building production cables, wiring electronic assemblies, reading schematics, performing checkout, recording test data, and documenting configuration changes for engineering review.

LEADERSHIP & AWARDS

- Senior technician assignment recognized for dependable prototype support and clear technical documentation.
- IPC/WHMA-A-620 certification recognized for cable assembly workmanship and inspection knowledge.
- Progressed from supervised electronics assembly into independent prototype and senior technician responsibilities.

EDUCATION

Diploma in Electronics Technology

New England Institute of Technology 🎓 GPA: 0 📅 2019 📍 East Greenwich, Rhode Island

Coursework: *Electronic circuits, schematic reading, wiring methods, digital logic*

CERTIFICATIONS

- IPC/WHMA-A-620 Certified IPC Specialist 📅 2022
- Electronics Technology Diploma Certification 📅 2019

TECHNICAL SKILLS

- **Cable Assembly:** Production cables, cable harnesses, connector termination
- **Schematic Documentation:** Schematics, wiring diagrams, engineering drawings
- **Prototype Engineering:** Prototype fabrication, prototype assembly, prototype modification
- **Electronics Hardware:** Electronic circuits, sensors, mechanical components
- **Testing Methods:** Continuity testing, functional checks, checkout procedures

- **Troubleshooting Methods:** Fault isolation, signal tracing, corrective actions
- **Technical Records:** Test logs, configuration notes, technical data
- **Engineering Documents:** Reports, sketches, flow charts
- **Assembly Controls:** Routing, labeling, strain relief
- **Inspection Practices:** Workmanship inspection, pin assignment checks, termination checks
- **Production Systems:** Bills of material, work instructions, traceability
- **Clearance Readiness:** Secret clearance eligibility, on site support, day schedule

PROFESSIONAL AFFILIATIONS

- Electronics technician peer group, shared cable workmanship and schematic interpretation guidance.
- Prototype engineering support teams, collaborated across assembly, testing, documentation, and fault isolation.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST