

Jett Wheeler

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SUMMARY

Senior systems engineer with seven years supporting Department of Defense electronic warfare, counter unmanned aircraft systems, **systems integration**, and test and evaluation programs. Leads laboratory, integration, limited field, and **Developmental Testing** activities through disciplined planning, readiness coordination, execution, analysis, and reporting. Applies MATLAB, Python, and Excel to evaluate **Measures of Effectiveness**, **Measures of Performance**, functionality, and system performance. Maintains requirements verification, traceability evidence, discrepancy records, configuration control, safety processes, and TEMP aligned documentation. Coordinates closely with systems engineering, software, integration, test, and program teams, creating clear evidence for engineering decisions and program reviews. Active Secret security clearance supports classified federal work, and experience with portable electromagnetic warfare systems brings practical judgment to demanding test environments.

EXPERIENCE

Senior Systems Engineer

January 2025 - Present

Sentinel Arc Engineering

Huntsville, AL

Leads integration and test planning for Department of Defense electronic warfare and counter unmanned aircraft systems. Owns laboratory and field readiness, controlled execution, performance analysis, traceability, discrepancy follow up, and technical reporting. Coordinates systems, software, integration, test, and program teams across Developmental Testing and limited field events.

- Coordinated **electronic warfare** integration planning across systems, software, integration, and test teams.
- Built laboratory **test cases** with safety controls, data needs, configurations, and acceptance evidence.
- Analyzed **Measures of Effectiveness** and **Measures of Performance** using Python, MATLAB, and Excel.
- Linked requirements, configurations, **discrepancies**, execution records, and objective evidence for verification.
- Led **test readiness**, setup, execution, and follow up during Developmental Testing events.
- Prepared TEMP aligned reports describing methods, observations, limitations, results, and recommended actions.

Systems Engineer II

March 2023 - December 2024

Redstone Mission Systems

Huntsville, AL

Supported federal electronic warfare and counter unmanned aircraft system programs through integration planning, test documentation, execution support, **data analysis**, and **requirements verification**. Served as a steady technical connection among engineering, software, integration, test, and program stakeholders during laboratory and field activities.

- Translated system specifications into practical **test procedures**, cases, data requirements, and acceptance evidence.
- Supported integration events by controlling configurations, documenting observations, and resolving discrepancies with engineers.
- Evaluated system **functionality** through Python, MATLAB, and Excel performance analysis.
- Maintained traceability records that connected requirements, test results, and verification evidence.
- Supported readiness reviews, safe setup, controlled execution, and **limited field testing**.
- Communicated Developmental Testing findings through concise **technical reports** for program decisions.

Systems Test Engineer

June 2021 - February 2023

Vector Harbor Technologies

Dahlgren, VA

Executed systems test work for Department of Defense electronic warfare programs, supporting laboratory integration, limited field activities, Developmental Testing, and objective performance assessment. Managed test evidence, configuration details, safety steps, **data collection**, and technical communication so engineering teams could act on dependable findings.

- Prepared integration procedures and **test cases** for electronic warfare system functions and interfaces.
- Collected test data and assessed performance against **Measures of Effectiveness** and **Measures of Performance**.
- Recorded discrepancies, **observations**, configurations, and verification evidence during controlled execution.
- Supported test event planning, readiness reviews, laboratory setup, and field execution.
- Used Excel, MATLAB, and Python to organize results and identify **performance** patterns.
- Drafted technical reports that clarified results, limitations, and required follow up.

Junior Systems Engineer

October 2019 - May 2021

BlueRidge Federal Engineering

Norfolk, VA

Contributed to federal **systems engineering** and test programs supporting electronic warfare and counter unmanned aircraft system evaluations. Built foundational experience in test planning, requirements verification, data analysis, **configuration control**, safe execution, discrepancy documentation, and communication across technical teams.

- Supported test planning by organizing procedures, cases, configurations, **safety** steps, and data needs.
- Assisted laboratory and limited field execution under established **Developmental Testing** guidance.
- Compared collected results with requirements and documented verification evidence for engineering review.

- Tracked discrepancies from observation through technical assessment and closure recommendations.
- Applied **Excel** and **MATLAB** for structured test data review and performance assessment.
- Helped assemble TEMP aligned documentation and reports for federal program stakeholders.

PROJECTS

Portable Counter UAS Test Assessment 📅 2026

Created a focused assessment approach for portable counter unmanned aircraft system testing, connecting test cases, Measures of Effectiveness, Measures of Performance, traceability evidence, configuration control, and technical reporting.

Electronic Warfare Integration Readiness 📅 2024

Structured an integration readiness workflow for electronic warfare laboratory events, bringing together setup actions, safety controls, data collection, discrepancy handling, and evidence based engineering decisions.

LEADERSHIP & AWARDS

- Recognized by engineering leadership for dependable coordination across systems, software, integration, and test teams.
- Selected for increased ownership of test readiness, requirements traceability, and technical reporting within federal programs.
- Commended for clear performance analysis supporting practical engineering conclusions during Developmental Testing.

EDUCATION

Bachelor of Science in Electrical Engineering

2019

Old Dominion University GPA: 3.5

Norfolk, VA

Coursework: Systems engineering, electrical circuits, signal processing, control systems

CERTIFICATIONS

- Secret Security Clearance 📅 2026
- Department of Defense Security Clearance 📅 2026

TECHNICAL SKILLS

- **Test Planning:** Test plans, test procedures, test cases
- **Test Environments:** Laboratory testing, integration testing, field testing
- **Test Evaluation:** Developmental Testing, Operational Testing, test and evaluation
- **Performance Measures:** Measures of Effectiveness, Measures of Performance, functionality assessment
- **Data Analysis:** Python, MATLAB, Excel
- **Requirements Engineering:** Requirements verification, requirements traceability, verification evidence
- **Electronic Warfare:** Electromagnetic warfare, counter UAS, counter radio controlled improvised explosive device systems
- **Configuration Management:** Configuration control, baseline management, controlled execution
- **Technical Documentation:** TEMP, test reports, technical procedures
- **Test Operations:** Test readiness, test setup, test execution
- **Safety Management:** Safety processes, controlled test environments, event safety
- **Discrepancy Management:** Discrepancy records, observation tracking, resolution follow up

SKILLS

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|-----------------------|-------------------------|-----------------------------|---------------------------|
| • Systems engineering | • Counter UAS | • Requirements verification | • Measures of Performance |
| • Test and evaluation | • DoD programs | • Traceability | • Configuration control |
| • Systems integration | • DT and OT | • TEMP documentation | • Performance analysis |
| • Electronic warfare | • Developmental Testing | • Measures of Effectiveness | |

PROFESSIONAL AFFILIATIONS

- Association for Unmanned Vehicle Systems International, professional member.
- International Test and Evaluation Association, professional member.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST