

Leonardo Mullins

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SUMMARY

Systems Integration Engineer with five years supporting defense and aerospace programs through **MIL-STD-882E** system safety analysis, **requirements development**, hardware integration, and verification planning. Active Secret-cleared professional reviews electrical schematics, engineering drawings, interface documentation, **tactical operating procedures**, and maintenance concepts to identify hazards, assess **fault tolerance**, and strengthen compliance. Recent work connects safety findings with concise, testable requirements, hazard tracking, design reviews, test readiness, corrective actions, and cross-functional decisions. Collaboration with systems, electrical, software, test, operations, and maintenance teams has supported safer designs without restricting mission performance. Ready to bring disciplined analysis, practical engineering judgment, and clear technical communication to Northstar Defense Systems in Woburn, helping its defense customer deliver safe, verifiable, mission-ready systems.

EXPERIENCE

Systems Integration Engineer II

September 2025 - Present

HarborPoint Engineering

Boston, MA

Leads integration and safety analysis for tactical electronics modernization across hardware, electrical interfaces, software controls, **maintenance procedures**, and verification evidence. Owns hazard records, requirements traceability, design-review preparation, and risk-control coordination with engineering, test, operations, and maintenance stakeholders.

- Led tactical electronics integration across hardware, software, and maintenance interfaces, strengthening **safe system performance**.
- Maintained MIL-STD-882E **hazard logs** and **verification crosswalks**, giving design reviews traceable safety evidence.
- Reviewed schematics and equipment drawings, exposing **latent hazards**, **single-point failures**, and fault-tolerance gaps.
- Converted safety findings into concise, testable requirements, aligning systems, electrical, software, and verification engineers.
- Prepared design-review evidence with hazard summaries, assumptions, verification status, and corrective-action tracking.
- Coordinated practical risk controls with test and maintenance teams, protecting tactical performance during modernization.

System Safety Engineer I

June 2023 - August 2025

Sentinel Mission Technologies

Aurora, CO

Performed MIL-STD-882E safety analyses for defense communications equipment, connecting hazard identification, design requirements, verification planning, configuration control, and operational readiness. Presented unresolved risks and practical alternatives through safety working groups and technical reviews involving engineering, test, operations, and maintenance personnel.

- Performed preliminary and **subsystem hazard analyses** for defense communications equipment, clarifying risk controls early.
- Examined drawings, schematics, failure data, and maintenance concepts, identifying latent failures and weak warnings.
- Linked causal factors, **risk ratings**, mitigations, owners, and **verification methods** through controlled hazard records.
- Drafted safety requirements and **verification statements**, enabling inspection, analysis, demonstration, and test evidence.
- Presented unresolved risks and design alternatives during **safety working groups**, gaining engineering leadership alignment.
- Reconciled operating procedures, maintenance instructions, and prerequisites before **test readiness** reviews.

Integration Engineer

June 2021 - May 2023

Meridian Aeronautics

Huntsville, AL

Supported electronic assembly and control-interface integration for a government aerospace development program under senior **systems engineering** guidance. Compared drawings, schematics, requirements, laboratory configurations, and technical data while building early safety records, traceability, review packages, and verification plans.

- Supported electronic assembly integration under senior systems engineers, improving control-interface readiness for laboratory testing.
- Compared drawings, **schematics**, interface requirements, and configurations, finding mismatches affecting safe operation.
- Documented failure modes and hazards in structured workbooks, giving reviewers clear control recommendations.
- Built traceability matrices linking requirements with inspections, demonstrations, and planned verification events.
- Coordinated clarification among design, **test**, manufacturing, and maintenance contributors, completing technical review packages.
- Produced technical memoranda and briefings supporting configuration reviews and early **MIL-STD-882E** planning.

PROJECTS

Tactical Electronics Safety Integration 📅 2026

Integrated hardware, electrical interfaces, software controls, and maintenance concepts into a traceable safety analysis package. Connected hazard findings with testable requirements and review evidence.

Defense Communications Hazard Traceability 📅 2025

Built a controlled hazard workflow linking causal factors, risk ratings, mitigations, owners, and verification methods across design changes and test readiness.

LEADERSHIP & AWARDS

- Selected to lead daily safety coordination for a tactical electronics modernization effort.
- Recognized for clear hazard analysis and practical design alternatives during technical reviews.
- Trusted to prepare safety evidence supporting preliminary and critical design reviews.

EDUCATION

Bachelor's Degree in Systems Engineering2021

University of Alabama in Huntsville GPA: 3.5Huntsville, AL

Coursework: Systems Safety, Requirements Engineering, Systems Integration, Verification and Validation

CERTIFICATIONS

- MIL-STD-882E System Safety Practices 📅 2024
- Secret Security Clearance 📅 2025

TECHNICAL SKILLS

- **System Safety Standards:** MIL-STD-882E, System Safety Programs, System Safety Design Analysis
- **Hazard Analysis:** Preliminary Hazard Analysis, Subsystem Hazard Analysis, Operating-and-Support Hazard Review
- **Safety Analysis Methods:** Fault Tree Analysis, Failure Modes and Effects Analysis, Fault Tolerance Assessment
- **Requirements Engineering:** Safety Requirements, Requirements Analysis, Requirements Traceability
- **Verification Planning:** Verification and Validation, Inspection, Analysis
- **Hardware Engineering:** Hardware Integration, Engineering Drawings, Electrical Schematics
- **Interface Management:** Interface Control Documents, Control Interfaces, Interface Requirements
- **Test Operations:** Test Readiness, Tactical Operating Procedures, Demonstration
- **Maintenance Engineering:** Maintenance Procedures, Maintenance Concepts, Maintainer Safety
- **Risk Management:** Risk Assessment, Risk Ratings, Risk Controls
- **Technical Documentation:** Technical Memoranda, Safety Evidence, Review Packages
- **Engineering Software:** IBM DOORS Next, Microsoft Excel, Microsoft Visio
- **Configuration Control:** Configuration Management, Controlled Technical Data, Change Tracking

SKILLS

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|-----------------------|-----------------------|-----------------------------|----------------------------|
| • MIL-STD-882E | • FMEA | • Requirements Traceability | • Interface Documents |
| • System Safety | • Hazard Tracking | • Verification Planning | • Test Readiness |
| • Hazard Analysis | • Risk Assessment | • Electrical Schematics | • Configuration Management |
| • Fault Tree Analysis | • Safety Requirements | • Hardware Integration | |

PROFESSIONAL AFFILIATIONS

- Defense Systems Safety Society member focused on system safety practice and technical exchange.
- INCOSE member engaged with systems engineering, requirements, integration, and verification communities.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST