

James Morton

📞 (469) 555-1842 ✉️ james.morton@example.com

🌐 linkedin.com/example/jamesmorton 📍 Frisco, TX 75034



SUMMARY

Technical Product Manager with five years guiding connected hardware and software products from user needs through verified delivery. Translates product objectives into clear, feasible, verifiable system and **sub system requirements** across mechanical, electrical, firmware, software, connectivity, and cloud domains. Leads **requirements decomposition**, interface definition, acceptance criteria, traceability, **change impact analysis**, PLM governance, and **Verification and Validation** alignment. Builds transparent Jira intake and backlog practices that give engineering teams clear priorities, dependencies, and delivery context. Facilitates architecture decisions covering performance, scalability, reliability, security, and serviceability, while documenting assumptions, constraints, risks, and rationale. Partners with Engineering, Marketing, Quality and Regulatory, and IT stakeholders to resolve ambiguity early and support auditable product development. Located in Frisco, Texas, with a practical focus on predictable R&D outcomes.

EXPERIENCE

Technical Product Manager, Connected Systems

July 2024 - Present

Aster Ridge Technologies

Richardson, TX

Owns technical product definition for a connected monitoring platform and its R&D pipeline. Guides requirements, interfaces, tradeoffs, risks, backlog flow, and verification alignment across Engineering, Product, Quality and Regulatory, and IT. Maintains **lifecycle governance** that connects customer needs with controlled delivery evidence.

- Translated customer **use cases** into **system requirements** across embedded hardware, firmware, software, connectivity, and cloud services.
- Built Jira intake workflow with acceptance criteria and dependencies, improving sequencing across a single product R&D pipeline.
- Established bidirectional PLM traceability linking **user needs**, design outputs, and **verification evidence** for auditable reviews.
- Facilitated architecture tradeoffs covering performance, scalability, reliability, security, and serviceability before implementation decisions.
- Aligned **Verification and Validation** protocols with requirement intent, closing acceptance gaps before formal verification activities began.
- Led change impact reviews across Engineering, Product, Quality and Regulatory, and IT before controlled requirement updates.

Systems Engineer, Connected Products

October 2021 - June 2024

Blue Mesa Instruments

Dallas, TX

Developed system architecture artifacts and requirements for connected electromechanical products spanning hardware, firmware, applications, connectivity, and cloud components. Supported design reviews, verification planning, PLM governance, risk reviews, and cross functional decisions that improved delivery readiness and controlled change.

- Developed **system requirements** and **interface definitions** for connected electromechanical products across five engineering domains.
- Converted stakeholder use cases into measurable acceptance criteria, improving design review and verification planning readiness.
- Maintained PLM requirements and traceability artifacts linking design outputs with test evidence and lifecycle rationale.
- Performed **change impact analysis**, identifying downstream design, test, **connectivity**, and documentation dependencies before approval.
- Reviewed **Verification and Validation** protocols against intended behavior, resolving requirement gaps with engineering owners.
- Coordinated technical risk reviews and dependency tracking, escalating unresolved **constraints** before planned delivery was threatened.

PROJECTS

Connected Product Traceability Framework 📅 2025

Most teams do not lose time from missing ideas. They lose time from unclear links. Created a traceability framework connecting user needs, system requirements, design outputs, and verification evidence within PLM, giving reviewers clearer rationale and controlled change visibility.

Engineering Intake Governance Model 📅 2024

A backlog is a promise about what matters next. Structured a Jira intake model around objective prioritization, acceptance criteria, dependencies, and stakeholder review, helping engineering teams sequence work with fewer requirement ambiguities.

LEADERSHIP & AWARDS

- Recognized by engineering leadership for clarifying cross domain requirements and improving review readiness.
- Selected to facilitate architecture tradeoff reviews spanning performance, reliability, security, and serviceability.
- Trusted by Quality and engineering reviewers to maintain auditable requirements and verification history.

EDUCATION

Bachelor's Degree in Computer Engineering

2021

CERTIFICATIONS

- Certified Scrum Product Owner, Scrum Alliance 📅 2025
- Systems Engineering Certificate 📅 2024

TECHNICAL SKILLS

- **Requirements Management:** System requirements, Sub system requirements, Requirements decomposition
- **Traceability Tools:** Bidirectional traceability, Trace matrices, Verification evidence
- **Product Management:** PRD, TPP, User needs
- **Backlog Platforms:** Jira, Intake workflows, Prioritization
- **Lifecycle Management:** PLM, Controlled changes, Auditable history
- **Systems Architecture:** Interface definitions, Architecture decisions, Technical acceptance criteria
- **Engineering Domains:** Mechanical, Electrical, Firmware
- **Software Platforms:** Application software, Connectivity, Cloud services
- **Verification Practices:** Verification and Validation, Test protocols, Acceptance testing
- **Risk and Change:** Change impact analysis, Risk mitigation, Dependency tracking
- **Quality Systems:** Design controls, Quality review, Regulatory collaboration
- **Technical Tradeoffs:** Performance, Scalability, Reliability
- **Security and Serviceability:** Security, Serviceability, Technical risk
- **Stakeholder Collaboration:** Engineering, Marketing Product Management, Information Technology
- **Product Definition:** Use cases, Target outcomes, Assumptions and constraints

SKILLS

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|--------------------------------|------------------------------|-------------------------------|---------------------------------|
| • Systems engineering | • Acceptance criteria | • PLM | • Design controls |
| • Requirements engineering | • Interface definitions | • Jira | • Risk management |
| • Technical product management | • Bidirectional traceability | • Backlog governance | • Cross functional facilitation |
| • Requirements decomposition | • Change impact analysis | • Verification and Validation | |

PROFESSIONAL AFFILIATIONS

- Scrum Alliance, Certified Scrum Product Owner community member focused on practical product delivery.
- Systems Engineering professional community participant, sharing methods for requirements traceability and verification planning.

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST