

Milo Simmons

☎ (918) 555-4176 ✉ milo.simmons@example.com 💼 linkedin.com/example/milosimmons 📍 Tulsa, OK 74104

SUMMARY

Manufacturing engineer with five years of aerospace production experience supporting aircraft electrical installations, manufacturing planning, engineering data analysis, supplier coordination, and shop floor execution. Evaluates drawings, technical requirements, and configuration data for manufacturability and producibility, then converts approved engineering definition into clear assembly plans and controlled work instructions. Investigates production issues involving electrical components and wire bundles, using GOLDesp, WIRS, **Manufacturing Execution System** records, and shop evidence to recommend practical solutions. Works closely with **Integrated Product Teams**, design engineering, production, quality, supply chain, internal customers, and electrical suppliers. Applies Lean principles during planning reviews and process improvements. Holds a **Bachelor of Science** in Manufacturing Engineering, an active **U.S. Secret Clearance**, and practical experience supporting onsite first shift aerospace operations.

EXPERIENCE

Manufacturing Engineer II, Aircraft Electrical Manufacturing April 2024 - Present
Prairie Sky Aerospace *Tulsa, OK*

- Lead manufacturing engineering support for aircraft electrical installation work, coordinating suppliers, engineering, production, quality, and **internal customers** across controlled planning and shop floor execution.
- Coordinated supplier and **engineering** questions for **aircraft electrical installations**, shortening paths for production decisions.
 - Reviewed wire bundle **drawings** for routing, access, sequence, tooling, and installation constraints before production release.
 - Authored controlled shop floor instructions for electrical installations, converting approved design data into assembly steps.
 - Developed make buy recommendations for electrical components and **wire bundles** using capability and timing inputs.
 - Researched technical issues through GOLDesp, WIRS, drawings, and shop evidence, supporting practical manufacturing dispositions.
 - Applied **Lean principles** during planning reviews, simplifying work sequence and reducing avoidable production interruptions.

Manufacturing Engineer, Aircraft Modification Production October 2021 - March 2024
Frontier Aircraft Services *Oklahoma City, OK*

- Supported aircraft modification programs through **manufacturing planning**, electrical installation sequencing, production readiness, technical investigation, and cross functional collaboration with engineering, quality, supply chain, and production teams.
- Created manufacturing plans for **aircraft modification** packages, clarifying electrical sequence and material requirements.
 - Authored **assembly work instructions** that gave production teams current, practical installation guidance.
 - Analyzed engineering drawings and **technical data**, escalating **manufacturability** concerns before release decisions.
 - Maintained **Manufacturing Execution System** planning records after approved configuration and instruction changes.
 - Compared internal capability with supplier options during make buy reviews for hardware and wire bundles.
 - Investigated shop floor problems through requirements, configuration records, planning history, and installation conditions.
 - Contributed to Integrated Product Team reviews and Lean activities, improving execution across modification stakeholders.

PROJECTS

- Aircraft Electrical Planning Improvement** 📅 2024
Mapped planning inputs across engineering, suppliers, and production, then clarified instruction flow for electrical installation work. The effort supported cleaner handoffs and more consistent shop floor execution.
- Wire Bundle Make Buy Analysis** 📅 2023
Compared internal fabrication capability, supplier inputs, material needs, and production timing for wire bundle decisions. Findings supported practical sourcing recommendations for aircraft modification work.

LEADERSHIP & AWARDS

- Lean Fundamentals Certificate, 2022
- Manufacturing Engineering Recognition for Cross Functional Production Support, 2024
- Team Recognition for Electrical Installation Planning Quality, 2023

EDUCATION

Bachelor's Degree in Manufacturing Engineering 2021
University of Central Oklahoma GPA: 3.5 *Edmond, OK*
Coursework: Manufacturing systems, engineering materials, production planning, quality systems

CERTIFICATIONS

- U.S. Secret Security Clearance, Active 📅 2024
- Lean Fundamentals Certificate 📅 2022

TECHNICAL SKILLS

- **Manufacturing Systems:** GOLDesp, WIRS, Manufacturing Execution Systems
- **Electrical Installation:** Aircraft wiring, electrical components, wire bundles
- **Planning Documentation:** Manufacturing plans, assembly instructions, shop floor instructions
- **Engineering Analysis:** Requirements analysis, drawing review, technical data research
- **Production Methods:** Make buy planning, fabrication planning, production sequencing
- **Quality Practices:** Configuration control, production readiness, discrepancy review
- **Lean Methods:** Lean principles, workflow simplification, waste reduction
- **Team Collaboration:** Integrated Product Teams, supplier coordination, internal customers
- **Aerospace Operations:** Aircraft modification, electrical installation, first shift production
- **Security And Compliance:** U.S. Secret Clearance, export control, U.S. Person requirements

SKILLS

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|-------------------------------------|---------------------|-----------------------------------|-------------------------|
| • Manufacturing planning | • Manufacturability | • GOLDesp | • Lean principles |
| • Aircraft electrical installations | • Producibility | • WIRS | • Production readiness |
| • Engineering data analysis | • Make buy planning | • Supplier coordination | • Configuration control |
| • Assembly work instructions | • Wire bundles | • Technical problem investigation | |

PROFESSIONAL AFFILIATIONS

- Integrated Product Team Contributor, Aircraft Modification Programs
- Aerospace Manufacturing Engineering Community Participant

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST