



Max Daniels

Air Proprietary Industrial Engineer

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STRENGTHS

- 🔧 **Systems integration**
Connected suppliers, equipment, staffing, materials, and production demand into plans that leaders could execute with confidence.
- 👥 **Shop floor partnership**
Worked beside assembly technicians during layout and process changes, turning practical observations into smoother daily execution.
- ♥️ **Analytical judgment**
Built capacity and schedule views from ERP and APS data. Teams gained clearer options when constraints surfaced.
- ⚙️ **Lean problem solving**
Led improvement events across operations and quality. Recurring constraints became visible, discussed, and easier to control.
- ➡️ **Supplier coordination**
Translated supplier lead time and capacity signals into inventory and sequencing choices, giving planners a steadier path forward.

SKILLS

Industrial Engineering

Aerospace Manufacturing

Supply Chain Integration

Lean Manufacturing

Capacity Analysis Plant Layout

Workflow Analysis

Production Planning

Shop Load Planning

Project Management Scheduling

ERP APS Minitab JMP

SUMMARY

Industrial Engineer with more than five years of experience improving aerospace and advanced **manufacturing systems** through production planning, **supply chain integration**, Lean Manufacturing, capacity analysis, and data driven process improvement. Connects product design, suppliers, facilities, equipment, staffing, material flow, and shop floor execution within maintainable **production systems**. Builds capacity models, plant layouts, workflows, production plans, supplier metrics, databases, spreadsheets, and demand supply analyses using ERP, APS, Minitab, JMP, and visualization tools. Leads cross functional work with procurement, suppliers, logistics, quality, operations, engineering, and **manufacturing assembly technicians**. Applies ergonomics, safety standards, design standards, inventory strategy, project management, scheduling, shop loading, and production change control to support safe, efficient, cost conscious delivery in regulated aerospace operations.

EXPERIENCE

Industrial Engineer II, Supply Chain Integration

AeroVector Systems 📅 May 2023 - Present 📍 Belleville, IL

Leads **industrial engineering** support for aircraft subassembly production, integrating suppliers, equipment, staffing, materials, capacity, and shop floor execution. Partners with procurement, logistics, operations, quality, and manufacturing assembly technicians to stabilize production, improve visibility, and protect schedule performance.

- Integrated **supplier capacity**, equipment, staffing, and **material flow** into executable production plans.
- Built ERP and APS capacity models that exposed bottlenecks across machining, assembly, and purchased part flows.
- Partnered with procurement and **suppliers** on **lead times**, delivery performance, capacity, inventory, and production sequencing.
- Redesigned work cell layouts with assembly technicians, applying ergonomic and safety criteria to improve material flow.
- Used Minitab, JMP, spreadsheets, and dashboards to analyze variation, inventory, demand supply balance, and schedule metrics.
- Led **Lean Manufacturing** events across operations, quality, logistics, and planning to stabilize recurring production constraints.

Industrial Engineer I

Gateway Aeronautics 📅 June 2021 - April 2023 📍 St. Charles, MO

Supported aerospace production system design through workflow modeling, facility planning, equipment utilization, staffing analysis, material movement, and shop loading. Converted production data into decision support while coordinating manufacturing, supply chain, engineering, quality, and planning inputs.

- Modeled workflows, facility needs, **equipment** utilization, **staffing** assumptions, and material movement against program demand.
- Developed spreadsheet and database analyses for throughput, capacity, work in process, and schedule performance.
- Applied Lean Manufacturing methods with technicians and quality partners to stabilize assembly **processes** and standard work.
- Prepared execution plans covering milestones, **production changes**, capacity constraints, and **shop loading** requirements.
- Monitored ERP supplier and inventory signals, aligning replenishment priorities with production schedules and material needs.
- Reviewed workstation changes for ergonomic, safety, **quality**, and design standard considerations before production release.

LANGUAGES



MY CAREER



- Industrial Engineer II, Supply Chain Integration at AeroVector Systems (3.4 Years)
- Industrial Engineer I at Gateway Aeronautics (1.8 Years)

PROJECTS

- Aircraft Subassembly Capacity Model** 📅 2024
Built an integrated capacity and shop load model using ERP and APS data, connecting supplier constraints, equipment availability, staffing, purchased parts, and assembly demand for schedule recovery decisions.
- Ergonomic Material Flow Redesign** 📅 2023
Reworked production cell layouts with manufacturing assembly technicians, combining material presentation, safety criteria, ergonomic review, and workflow analysis for steadier shop floor execution.
- Demand Supply Visibility Dashboard** 📅 2022
Created spreadsheet and visualization analyses for supplier signals, inventory status, schedule performance, and demand supply balance, giving operations leaders clearer production priorities.

LEADERSHIP & AWARDS

- Lean Six Sigma Green Belt recognition, 2022
- Selected to lead cross functional Lean Manufacturing problem solving across operations, quality, logistics, and planning.
- Trusted by manufacturing leaders for concise capacity, supplier, inventory, and schedule decision support.

EDUCATION

Bachelor's Degree in Industrial Engineering
Southern Illinois University Edwardsville 🎓 GPA: 0 📅 2021 📍 Edwardsville, IL
Coursework: Manufacturing systems, operations research, supply chain engineering, statistics, ergonomics

CERTIFICATIONS

- Lean Six Sigma Green Belt 📅 2022
- Lean Manufacturing Process Improvement 📅 2022

TECHNICAL SKILLS

- **Enterprise Planning Systems:** ERP, APS, supplier portals
- **Quality Analysis Tools:** Minitab, JMP, statistical analysis
- **Data Analysis Applications:** spreadsheets, databases, data visualization
- **Manufacturing Engineering:** production systems, workflow analysis, capacity analysis
- **Production Planning:** shop loading, scheduling, execution plans
- **Supply Chain Planning:** supplier capacity, lead time analysis, demand supply balancing
- **Inventory Management:** inventory strategy, replenishment planning, material availability
- **Lean Methods:** Lean Manufacturing, standard work, root cause analysis
- **Facility Planning:** plant layouts, work cell design, equipment utilization
- **Safety and Ergonomics:** safety standards, ergonomic guidelines, workstation review
- **Production Metrics:** schedule performance, throughput, process variation
- **Project Delivery:** project management, production changes, milestone planning

PROFESSIONAL AFFILIATIONS

- Aerospace manufacturing and supply chain improvement communities
- Lean Manufacturing and continuous improvement professional network

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST