

Max Daniels

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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 May 2023 - Present
AeroVector Systems *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 June 2021 - April 2023
Gateway Aeronautics *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.

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 2021

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

SKILLS

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|----------------------------|-----------------------|----------------------|-----------|
| • Industrial Engineering | • Capacity Analysis | • Shop Load Planning | • APS |
| • Aerospace Manufacturing | • Plant Layout | • Project Management | • Minitab |
| • Supply Chain Integration | • Workflow Analysis | • Scheduling | • JMP |
| • Lean Manufacturing | • Production Planning | • ERP | |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST