

Josiah Jackson

Senior Manufacturing Leader, Precision Assembly Operations

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STRENGTHS

- 🏢 **Capacity Leadership**
Built labor, tooling, equipment, and shift plans for new assembly cells, giving production leaders a clearer path through growth.
- ✅ **Quality at Source**
Added torque checks, configuration gates, and rapid containment after recurring escapes, helping teams resolve issues closer to work.
- 👥 **Frontline Development**
Coached supervisors through floor reviews and growth plans. Leaders gained confidence handling escalation, standard work, and performance feedback.
- ♥️ **FOD Discipline**
Created point of use controls, audits, training, and escalation routines. Clean work areas became part of daily operating rhythm.
- 🔧 **Cross Functional Delivery**
Connected Engineering, Quality, Materials, EHS, suppliers, and customers during recovery work. Shared facts helped teams act sooner.

SKILLS

Manufacturing leadership

Precision assembly SQDC

FOD prevention EHS

Quality at source

Configuration control

Standardized work Torque controls

Tooling and fixtures

Inspection planning

Visual management

Leader standard work

SUMMARY

Senior manufacturing and assembly leader with 15 years across high reliability aerospace and power system production, including more than nine years directing manufacturing teams. Leads complex **precision assembly** operations through disciplined Safety, Quality, Delivery, and Cost management, with accountability for product integrity, capacity, labor, equipment, and customer commitments. Builds standardized work around tooling, fixtures, torque and fastener controls, inspection gates, configuration control, cleanliness, training, and workplace standards. Establishes FOD prevention, visual management, **leader standard work**, **daily management systems**, 5S, and structured **root cause problem solving**. Partners with Engineering, Quality, Materials, Sourcing, EHS, suppliers, and customers. Develops supervisors and managers through floor based coaching, operating reviews, and practical growth plans that support reliable scale and sustainable performance.

EXPERIENCE

Director, Manufacturing Operations

Orion Propulsion Works 📅 January 2023 - Present 📍 Huntsville, AL

Directs precision assembly for high reliability propulsion modules across 360 hourly technicians and 42 salaried leaders. Owns SQDC reviews, capacity expansion, FOD prevention, **standardized work**, **quality at source**, and leader development across a complex production operation.

- Directed propulsion assembly across 360 technicians and 42 leaders through daily **SQDC** operating reviews.
- Built labor, tooling, equipment, and shift plans that launched two new assembly cells.
- Established FOD controls, workplace audits, training, escalation routines, and **leader standard work**.
- Integrated torque verification, configuration checks, inspection gates, and abnormality response into standardized assembly work.
- Converted recurring assembly escapes into revised **fixtures**, instructions, and **process controls** through root cause reviews.
- Developed managers through floor coaching, operating reviews, and targeted growth plans.

Senior Manufacturing Manager

Summit Aero Components 📅 March 2020 - December 2022 📍 Mobile, AL

Led aviation engine component assembly with 190 production employees and 24 salaried staff. Managed safety, quality, delivery, cost, configuration, **visual management**, workforce planning, and lean improvement across regulated production areas.

- Led **aviation engine assembly** for 190 employees and 24 salaried staff across SQDC priorities.
- Introduced tiered daily management and visual boards for Production, **Quality**, EHS, and Materials.
- Redesigned work around tooling, fixtures, fastener sequence, cleanliness, and **inspection points**.
- Facilitated Lean Action Workout events that reduced motion, queue time, and changeover barriers.
- Converted demand forecasts into labor plans, equipment needs, qualification requirements, and capital priorities.
- Mentored supervisors in **structured problem solving**, escalation discipline, and **leader standard work**.

Manufacturing Manager

Blue Ridge Energy Equipment 📅 June 2017 - February 2020 📍 Charlotte, NC

Managed assembly and test operations for industrial turbine subassemblies with approximately 120 technicians. Coordinated **engineering**, quality, suppliers, **labor planning**, 5S, process audits, containment, and delivery recovery for complex equipment production.

Daily management systems

Lean manufacturing

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Director, Manufacturing Operations at Orion Propulsion Works (3.8 Years)

● Senior Manufacturing Manager at Summit Aero Components (2.8 Years)

● Manufacturing Manager at Blue Ridge Energy Equipment (2.7 Years)

● Operations Supervisor at Redstone Aerospace Manufacturing (2.8 Years)

● Manufacturing Engineer at Gulf Coast Precision Systems (3 Years)

- Managed turbine subassembly and test operations for approximately 120 technicians and production work centers.
- Resolved fit, **tooling**, and configuration issues through containment and cross functional **root cause analysis**.
- Expanded **5S** and **visual management** across assembly zones for improved tool control and readiness.
- Aligned labor reviews with takt, qualifications, equipment availability, and delivery schedules.
- Established layered process audits for critical assembly steps and rapid deviation response.
- Coordinated supplier and internal recovery plans while preserving inspection and traceability requirements.

Operations Supervisor

Redstone Aerospace Manufacturing 📅 July 2014 - May 2017 📍 Huntsville, AL

Supervised 65 technicians assembling flight critical mechanical systems under strict **cleanliness**, traceability, and configuration requirements. Supported daily production control through readiness checks, containment, FOD discipline, escalation, and frontline coaching.

- Supervised 65 technicians assembling flight critical mechanical systems under controlled production requirements.
- Used readiness checks covering tooling, fixtures, **materials**, calibrated equipment, and inspection availability.
- Led containment and **structured problem solving** for recurring assembly abnormalities and quality holds.
- Reinforced FOD control through area inspections, tool accountability, and clean as you go practices.
- Used daily reviews to surface shortages, equipment constraints, and **quality** risks before milestones shifted.
- Coached team leads on **safety**, **standardized work**, escalation discipline, and performance feedback.

Manufacturing Engineer

Gulf Coast Precision Systems 📅 June 2011 - June 2014 📍 Pensacola, FL

Supported precision aerospace assembly through work instructions, tooling concepts, inspection points, process documentation, configuration records, and lean improvement. Worked with technicians and quality engineers to improve critical fastener operations and new product readiness.

- Supported **aerospace** assembly through work instructions, tooling concepts, **inspection points**, and process documentation.
- Analyzed recurring defects with technicians and **quality** engineers, then implemented controlled corrective actions.
- Developed fixture and torque control improvements for critical fastener operations.
- Conducted time studies that improved material presentation and task sequencing within approved processes.
- Supported new product introduction through engineering changes, configuration records, and readiness actions.
- Facilitated lean events focused on 5S, point of use tooling, and **standardized work**.

PROJECTS

Precision Assembly Capacity Expansion 📅 2025

Scaled two propulsion assembly cells through integrated labor models, tooling readiness, equipment planning, shift loading, and leader standard work. Focus centered on safe growth, reliable throughput, and disciplined SQDC performance.

Source Quality and FOD Control 📅 2024

Connected FOD prevention, torque verification, configuration checks, inspection gates, and abnormality response within standardized work. The effort strengthened product integrity and supported right first time execution.

LEADERSHIP & AWARDS

- Lean Six Sigma Black Belt recognition, 2021
- ASQ Certified Manager of Quality and Organizational Excellence achievement, 2023
- Manufacturing Leadership Mentor, North Alabama Operations Leadership Network

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Alabama in Huntsville 🎓 GPA: 3.5 📅 2011 📍 Huntsville, AL

Coursework: *Manufacturing systems, mechanical design, materials science, quality engineering*

CERTIFICATIONS

- Lean Six Sigma Black Belt 📅 2021
- ASQ Certified Manager of Quality and Organizational Excellence 📅 2023

TECHNICAL SKILLS

- **Manufacturing Systems:** SQDC, daily management systems, leader standard work
- **Precision Assembly:** Aerospace assembly, turbine assembly, propulsion modules
- **Quality Management:** Quality at source, product integrity, right first time
- **Process Control:** Standardized work, process discipline, defect prevention
- **FOD Control:** FOD prevention, tool accountability, cleanliness
- **Assembly Controls:** Torque controls, fastener controls, inspection gates
- **Configuration Management:** Configuration control, traceability, engineering changes
- **Lean Methods:** Lean manufacturing, 5S, Lean Action Workout
- **Problem Solving:** Root cause analysis, structured problem solving, containment
- **Operations Planning:** Capacity planning, labor planning, shift loading
- **Production Readiness:** Tooling readiness, equipment readiness, technician qualification
- **Cross Functional Operations:** Engineering, Quality, Materials, Sourcing, EHS

PROFESSIONAL AFFILIATIONS

- North Alabama Operations Leadership Network, Manufacturing Leadership Mentor
- Huntsville area community programs, Volunteer STEM Manufacturing Career Speaker

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST