

Minho Jordan

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SUMMARY

Senior **manufacturing project engineer** with 13 years of experience delivering complex industrial programs across **heavy equipment**, automotive, and fabricated products environments. Leads cross functional work spanning manufacturability, **New Product Introduction**, capital equipment, capacity planning, automation, robotics, and digital manufacturing. Connects design engineering, operations, suppliers, and plant teams from concept through production readiness, balancing safety, quality, production velocity, and cost. Applies Lean Six Sigma, structured project management, CAD and CAE analysis, technical troubleshooting, and **Global Teamcenter Manufacturing** expertise. Builds common standards, smart tooling, controlled work instructions, digital thread practices, and advanced assembly methods across facilities. Comfortable coordinating global stakeholders, suppliers, off hour meetings, and domestic or international travel while turning manufacturing strategy into reliable production outcomes.

EXPERIENCE

Senior Manufacturing Project Engineer

July 2022 - Present

Northstar Heavy Industries

Columbus, OH

Leads cross plant manufacturing programs for cab structures and fabricated assemblies, guiding engineers, suppliers, and operations teams through readiness, capital planning, digital manufacturing, and launch execution.

- Aligned cab programs across three plants, connecting engineering releases with readiness gates and launch milestones.
- Resolved cab tolerance and joining risks through **NPI** reviews, protecting production validation timing.
- Linked product definitions, manufacturing plans, and **work instructions** through **Global Teamcenter Manufacturing** workflows.
- Built **robotic welding** and smart fixture business cases, securing operations and maintenance acceptance criteria.
- Applied CAD, CAE, and **process simulation** to resolve fixture, material flow, and application issues.
- Guided suppliers and engineers through Lean **Six Sigma** reviews, capacity scenarios, and common standards.

Manufacturing Engineering Project Lead

March 2019 - June 2022

Summit Mobility Systems

Dayton, OH

Managed vehicle structure and assembly workstreams, translating product changes into process plans, tooling, capacity models, supplier actions, and **production readiness** decisions.

- Converted vehicle design changes into process plans, tooling requirements, capacity models, and readiness gates.
- Prevented late conflicts through design for manufacturing reviews covering access, fastening, and part commonality.
- Connected **smart tooling** signals with production reporting, improving issue visibility across assembly **operations**.
- Reviewed supplier capability, tooling readiness, **quality** controls, and recovery actions before launch.
- Validated fixture concepts and process simulations with controls, quality, maintenance, and production specialists.
- Led **continuous improvement** events addressing flow, changeover, rework, and line balance during launches.

Manufacturing Project Engineer

August 2016 - February 2019

Lakefront Fabrication Group

Toledo, OH

Delivered **fabrication** and assembly programs for large welded industrial **structures**, coordinating process design, equipment installation, operator readiness, production trials, suppliers, and capital decisions.

- Coordinated welded structure projects through process design, equipment installation, trials, and operator readiness.
- Created weldment manufacturing plans using **CAD** reviews, fixture concepts, standardized work, and controlled instructions.
- Built capacity models from demand, cycle time, labor, and equipment constraints for capital decisions.
- Resolved recurring process issues through root cause analysis, diagnostics, dimensional reviews, and controlled trials.
- Supported **robotic welding** and material handling deployments by defining requirements and validating **safety** results.
- Partnered with **suppliers** on tooling, component quality, and delivery readiness before production transitions.

Manufacturing Engineer

June 2013 - July 2016

Midwest Equipment Works

Indianapolis, IN

Supported low volume industrial equipment manufacturing through assembly methods, fabrication routings, fixtures, production documentation, capacity analysis, and Lean problem solving.

- Developed assembly methods, **fabrication** routings, fixtures, and production documents from engineering designs.
- Reviewed drawings and CAD models, identifying tolerance, joining, access, and common component opportunities.
- Coordinated shop floor trials, capturing operator feedback before controlled process release.
- Maintained **work instructions** for changing product configurations, improving operator consistency across assemblies.
- Performed capacity analyses that exposed equipment bottlenecks and labor requirements for production planning.
- Applied **Lean** problem solving with production, quality, and maintenance teams to address defects.

Junior Manufacturing Engineer

June 2012 - May 2013

Riverbend Components

Cincinnati, OH

Supported process engineering for fabricated industrial components, converting released designs into routings, fixture concepts, shop floor methods, capacity data, and traceable documentation.

- Converted released drawings into routings, tooling needs, and documented shop floor methods.
- Revised CAD fixture layouts after incorporating engineer and operator feedback before installation.
- Collected cycle time and utilization data supporting capacity and production constraint evaluations.
- Investigated quality and equipment issues using measurements, records, drawings, and structured problem solving.
- Updated standardized work and visual instructions after validated process changes.
- Contributed to Lean events focused on workplace organization, material presentation, and repeatable assembly.

PROJECTS

Connected Manufacturing Digital Thread 📅 2024

Connected product definitions, manufacturing plans, and controlled work instructions through Global Teamcenter Manufacturing, helping launch teams share reliable information across facilities.

Robotic Cab Assembly Initiative 📅 2023

Partnered with engineering, operations, maintenance, and suppliers on robotic welding cells and smart fixtures, balancing safety, quality, capacity, and cost.

Fabrication Capacity Planning Model 📅 2018

Worked with production and finance partners to model demand, cycle time, labor, and equipment limits, giving leaders clearer capital and sourcing choices.

LEADERSHIP & AWARDS

- Lean Six Sigma Black Belt recognition, 2021, earned after leading structured improvement work across manufacturing operations.
- Project Management Professional credential, 2020, reflecting disciplined control of scope, resources, schedules, and technical deliverables.
- Cross plant manufacturing leadership recognition, 2024, received for aligning launch teams around common digital manufacturing standards.

EDUCATION

Bachelor of Science in Mechanical Engineering

2012

University of Cincinnati GPA: 0

Cincinnati, OH

Coursework: Manufacturing systems, mechanical design, materials science, engineering economics

CERTIFICATIONS

- Lean Six Sigma Black Belt 📅 2021
- Project Management Professional 📅 2020

TECHNICAL SKILLS

- **Manufacturing Systems:** Global Teamcenter Manufacturing, digital thread, manufacturing plans
- **CAD and CAE:** CAD reviews, CAE analysis, process simulation
- **Automation and Robotics:** Robotic welding, automated material handling, assembly automation
- **Tooling and Fixtures:** Smart tooling, fixture design, error proofing
- **Project Management:** PMP methods, scope control, schedule control
- **Continuous Improvement:** Lean, Six Sigma, root cause analysis
- **Production Planning:** Capacity planning, demand modeling, line balancing
- **Product Introduction:** NPI, production readiness, validation planning
- **Fabrication Engineering:** Weldments, joining methods, advanced fabrication
- **Data and Applications:** Production reporting, data analytics, technical troubleshooting

- **Work Documentation:** Work instructions, standardized work, visual instructions

SKILLS

- Manufacturing Engineering
- Teamcenter Manufacturing
- Automation
- Advanced Assembly
- Project Management
- Digital Manufacturing
- Robotics
- Supplier Development
- New Product Introduction
- Capacity Planning
- Smart Tooling
- Data Analytics
- Design for Manufacturing
- Capital Projects
- Fixture Design

PROFESSIONAL AFFILIATIONS

- Member, Society of Manufacturing Engineers, supporting practical exchange across engineering and operations communities.
- Member, American Society of Mechanical Engineers, staying connected with mechanical design and manufacturing standards.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST