Aleksandar Henderson

Manufacturing Engineer

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STRENGTHS

Technical coaching
Four technical specialists received practical guidance on troubleshooting, maintenance priorities, and skill development. Team members became trusted resources.

Process improvement
Lean assessments reshaped work cells, material flow, visual controls, and standard work. Operators saw smoother daily execution.

Reliability focus
Connected machine and tooling signals made recurring losses easier to investigate. Maintenance conversations became more focused and useful.

Safety ownership
OSHA reviews turned guarding and work practice findings into tracked corrective actions. Safe equipment changes became part of project work.

Supplier collaboration
Regular supplier follow up kept tooling and equipment issues visible. Clear action logs helped teams reach validated solutions.

SKILLS

Manufacturing engineering

CNC machining | Tooling design

Zoller tool management

Lean Manufacturing | 6 Sigma

APQP | Automation | Cobots

Smart manufacturing

Equipment reliability | OSHA safety

Project management

Capital projects

Supplier management

SUMMARY

Manufacturing Engineer with eight years improving CNC machining, tooling, automation, equipment reliability, and production processes in high volume industrial environments. Leads technical specialists, capital equipment projects, **process planning**, and production support from problem definition through installation, validation, training, and sustained monitoring. Applies **Lean Manufacturing**, 6 Sigma, APQP, OSHA safety practices, risk analysis, and structured corrective action across machining and assembly operations. Hands on work includes cutting tool selection, Zoller tool management, cobot deployment, connected process monitoring, **new machine testing**, supplier coordination, and **manufacturing standards**. Builds trust with operators, maintenance teams, suppliers, and leaders by listening carefully, explaining tradeoffs, and sharing practical solutions. Brings disciplined project ownership and a people focused approach that supports safe operations, reliable equipment, consistent quality, controlled costs, and stronger throughput.

EXPERIENCE

Senior Manufacturing Engineer

Midwest Precision Components | April 2023 - Present | Rockford, IL

Leads manufacturing engineering for **CNC machining** cells, tooling systems, cobot applications, connected monitoring, and equipment reliability across high volume production. Supervises four technical specialists while coordinating operations, maintenance, suppliers, and leadership on safe, stable process performance.

- Optimized CNC setups through cycle observations, tool life data, and **quality** results, then standardized proven parameters.
- Led cobot deployment from requirements and supplier review through installation, risk assessment, validation, training, and handoff.
- Built connected dashboards combining machine status, downtime reasons, and **tooling** signals for focused **reliability** investigations.
- Supervised four technical specialists through coaching, skills development, troubleshooting reviews, and preventive maintenance priorities.
- Conducted OSHA **safety** reviews and corrected guarding, work practice, equipment change, and hazard findings.

Manufacturing Engineer

Prairie Motion Systems | June 2020 - March 2023 | Aurora, IL

Owned process engineering for machining and assembly operations, supporting equipment changes, standard work, quality response, APQP launches, and daily production issues. Coordinated operators, supervisors, suppliers, and leadership across Lean improvements, **tool management**, capital planning, and corrective action.

- Improved work cell layouts through Lean assessments of material flow, visual controls, and standardized operator work.
- Managed **Zoller** tool presetting improvements that strengthened tool identification, setup consistency, and controlled parameter use.
- Coordinated **APQP** launch readiness through process plans, tooling evidence, control documents, and supplier issue tracking.
- Planned equipment improvement projects with **schedules**, resources, **milestones**, risks, supplier actions, and leadership updates.
- Applied **6 Sigma** tools to recurring defects and equipment losses, then verified corrective actions with production data.

Manufacturing Engineer

Central Foundry Technologies | June 2018 - May 2020 | Joliet, IL

Supported production processes, equipment diagnostics, **new machine testing**, safety controls, supplier follow up, and smaller capital initiatives. Created practical standards, documented alternatives and risks, and trained technicians and operators on updated setup and inspection methods.

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- Senior Manufacturing Engineer at Midwest Precision Components (3.4 Years)
- Manufacturing Engineer at Prairie Motion Systems (2.8 Years)
- Manufacturing Engineer at Central Foundry Technologies (1.9 Years)

- Supported production equipment reviews by documenting problems, alternatives, **risks**, and recommended corrective actions.
- Participated in new machine setup and acceptance testing against supplier specifications, safety requirements, and process needs.
- Performed equipment **inspections** and **diagnostics** with maintenance teams, escalating safeguard and standards violations for correction.
- Created best practice documents for setup, inspection, and process control activities, then trained technicians and operators.
- Coordinated supplier actions for **tooling** and equipment issues through validation of implemented changes and documented closure.

PROJECTS

Cobot Cell Deployment 2024

Led a capital automation project from requirements and supplier review through installation, risk assessment, validation, operator training, and production handoff. Connected operations, maintenance, suppliers, and leadership around safe equipment adoption.

Connected Reliability Monitoring 2023

Built process monitoring dashboards using machine status, downtime reasons, and tooling signals. Helped production teams focus investigations on recurring reliability losses and practical corrective actions.

LEADERSHIP & AWARDS

- Senior Manufacturing Engineer leadership recognition for developing technical specialists and improving production support practices.
- Lean Manufacturing achievement recognition for applying structured problem solving across machining and assembly operations.
- Safety leadership recognition for OSHA focused inspections, hazard correction, and reinforcement of equipment safeguards.

EDUCATION

Bachelor's Degree in Manufacturing Engineering

Northern Illinois University GPA: 3.5 2018 DeKalb, IL

Coursework: *Manufacturing processes, CNC machining, process control, engineering economics, safety*

CERTIFICATIONS

- Lean Six Sigma Green Belt 2022
- OSHA 30 Hour General Industry 2024

TECHNICAL SKILLS

- **CNC Machining:** CNC setup, cutting tools, cycle optimization
- **Tooling Management:** Tooling design, Zoller, tool presetting
- **Lean Methods:** Lean Manufacturing, value stream mapping, standard work
- **Quality Methods:** 6 Sigma, corrective action, process capability
- **Launch Planning:** APQP, process plans, control plans
- **Automation:** Cobots, machine automation, robot cells
- **Reliability Systems:** Equipment reliability, downtime analysis, preventive maintenance
- **Safety Compliance:** OSHA, machine guarding, hazard assessment
- **Project Delivery:** Capital projects, milestones, risk registers
- **Connected Manufacturing:** Smart manufacturing, machine data, monitoring dashboards
- **Production Controls:** Manufacturing standards, visual controls, process controls

PROFESSIONAL AFFILIATIONS

- Manufacturing engineering peer network focused on CNC machining, tooling, automation, and process improvement.

- Industrial operations community supporting Lean Manufacturing, equipment reliability, safety, and technical staff development.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST