

Aleksandar Henderson

☎ (815) 555-6421 ✉ aleksandar.henderson@example.com 💼 linkedin.com/example/aleksandarhenderson 📍 Rockford, IL 61107

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

April 2023 - Present

Midwest Precision Components

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

June 2020 - March 2023

Prairie Motion Systems

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

June 2018 - May 2020

Central Foundry Technologies

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.

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

2018
DeKalb, IL

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

SKILLS

- | | | | |
|-----------------------------|----------------------|-------------------------|-----------------------|
| • Manufacturing engineering | • Lean Manufacturing | • Cobots | • Project management |
| • CNC machining | • 6 Sigma | • Smart manufacturing | • Capital projects |
| • Tooling design | • APQP | • Equipment reliability | • Supplier management |
| • Zoller tool management | • Automation | • OSHA safety | |

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.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST