

Knox Mueller

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SUMMARY

Manufacturing engineer with four years supporting **stamping presses**, automated production equipment, and high volume industrial operations. Hands on work covers mechanical, hydraulic, pneumatic, automation, and controls troubleshooting, with practical use of CAD, engineering systems, Microsoft tools, and **technical documentation**. Leads **root cause analysis**, **corrective actions**, preventive maintenance updates, equipment reliability work, and continuous improvement across safety, quality, throughput, speed, and cost goals. Coordinates breakdown recovery and planned improvements with skilled trades, controls engineering, production leaders, IT partners, engineering teams, and equipment suppliers. Creates repair references, operating instructions, and maintenance records that preserve equipment knowledge. Provides floor level training during repairs and production trials. Flexible for alternate shift support, extended repair windows, and travel up to 25 percent.

EXPERIENCE

Manufacturing Engineer, Stamping Operations

July 2024 - Present

Lakefront Stamping Solutions

Toledo, OH

Owns engineering support for a high volume stamping area with mechanical and automated press equipment. Coordinates repair priorities, reliability work, technical documentation, supplier projects, and floor level training with production leaders and skilled trades.

- Coordinated press **troubleshooting** with production leaders and skilled trades, restoring safe and stable **equipment operation**.
- Led root cause reviews for press faults, translating findings into **corrective actions** and maintenance updates.
- Evaluated cycle behavior and downtime history, identifying **reliability** and speed opportunities with controls engineers.
- Created CAD supported **repair** references and work instructions, preserving equipment knowledge for maintenance teams.
- Guided cross shift troubleshooting during repair events, strengthening team capability while protecting safety and **quality**.
- Coordinated machinery upgrades with suppliers and engineering partners, adopting proven solutions from comparable production lines.

Associate Manufacturing Engineer, Automated Forming

September 2022 - June 2024

Midwest Forming Technologies

Fort Wayne, IN

Supported stamping press maintenance and production engineering for automated metal forming cells. Built practical knowledge of **press mechanics**, **hydraulics**, pneumatics, equipment operation, engineering analysis, technical records, and production training.

- Supported press maintenance for automated forming cells, building practical knowledge of mechanics and equipment operation.
- Investigated interruptions through observations, records, drawings, and engineering data, isolating faults for trades.
- Applied **engineering theory** to recurring machinery issues, documenting failure modes and **corrective actions** for senior engineers.
- Updated **CAD** drawings and Microsoft analyses after repairs, improving technical information used during service work.
- Validated equipment changes during **production trials**, supporting safety, part quality, reliability, and process consistency.
- Delivered floor level instruction on approved equipment practices and escalation steps for production personnel.

PROJECTS

Automated Press Reliability Improvement 📅 2025

Reviewed downtime patterns, equipment condition, and recurring press faults. Documented corrective actions and coordinated practical reliability improvements with controls engineering and maintenance partners.

CAD Equipment Documentation Refresh 📅 2023

Updated equipment drawings, repair references, and maintenance records after machinery changes. Improved access to accurate technical information during future service work.

LEADERSHIP & AWARDS

- Recognized by plant leadership for clear technical documentation supporting repeatable press repairs.
- Selected by engineering peers to guide cross shift troubleshooting during recurring equipment failures.

EDUCATION

Bachelor of Science in Mechanical Engineering

2022

University of Toledo GPA: 3.5

Toledo, OH

Coursework: Mechanics, hydraulics, pneumatics, manufacturing methods, engineering theory

CERTIFICATIONS

- OSHA 10 Hour General Industry 📅 2023
- Microsoft Excel for Manufacturing Analysis 📅 2023

TECHNICAL SKILLS

- **Press Equipment:** Stamping presses, press mechanics, press maintenance
- **Fluid Power:** Hydraulics, pneumatics, hydraulic repair
- **Automation Systems:** Industrial automation, sensors, automated forming cells
- **Mechanical Systems:** Machinery maintenance, mechanical repair, equipment operation
- **Engineering Software:** CAD, engineering systems, equipment drawings
- **Microsoft Tools:** Microsoft Excel, Microsoft Word, Microsoft documentation
- **Reliability Methods:** Root cause analysis, corrective actions, preventive maintenance
- **Manufacturing Methods:** Metal forming, production trials, continuous improvement
- **Technical Documentation:** Repair references, work instructions, maintenance records
- **Training Systems:** Operator training, maintenance training, escalation procedures

SKILLS

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|-----------------------|-------------------------|-----------------------|---------------------------|
| • Press mechanics | • Corrective actions | • Engineering systems | • Automation systems |
| • Maintenance | • Equipment reliability | • Microsoft tools | • Technical documentation |
| • Repair | • Manufacturing methods | • Hydraulics | • Production training |
| • Root cause analysis | • CAD systems | • Pneumatics | |

PROFESSIONAL AFFILIATIONS

- Professional involvement in manufacturing engineering discussions focused on stamping equipment and reliability.
- Collaborates with skilled trades, controls engineers, production leaders, IT partners, and machinery suppliers.

LANGUAGES

- English (Native)
- German (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST