

# Jacob Reed

## MANUFACTURING ENGINEER

✉ jacob.reed@gmail.com

📍 United States, Detroit, MI

### SKILLS

Lean Tools: Value Stream Mapping, 5S, Kaizen, Just-in-Time (JIT) Expert

Manufacturing Data Analysis & Visualization (Excel, Power BI) Expert

Process Improvement Metrics: OEE, Cycle Time, Scrap Reduction Expert

Communication & Collaboration with Floor Operators and Supervisors Expert

Statistical Analysis & Process Control Techniques Expert

### LANGUAGES

- Spanish – Conversational Proficiency (B2)

### PROFESSIONAL SUMMARY

Detail-oriented Junior Manufacturing Engineer with hands-on experience applying Lean methodologies to drive process improvements and industrial efficiency. Proven ability to lead kaizen events, reduce lead times, and enhance production workflows. Passionate about using data-driven approaches to optimize manufacturing processes and achieve operational excellence.

### EXPERIENCE

★ January 2025 - August 2025

#### Process Improvement Co-op

Magna International /

- Led a value stream mapping initiative, successfully reducing lead time by 20% and improving overall production flow.
- Supported the implementation of Kanban systems across three departments, streamlining inventory management and reducing stock-outs.
- Collected and analyzed floor-level production data, generating performance dashboards in Excel VBA, resulting in actionable insights for continuous improvement.
- Collaborated closely with cross-functional teams to optimize machine setup times and reduce downtime.

### EDUCATION

#### ★ Bachelor of Science in Industrial & Systems Engineering

University of Michigan / Graduated: Dec 2024

- GPA: 3.7 / 4.0
- Relevant Coursework: Supply Chain Optimization, Manufacturing Systems Design, Quality Control, Operations Research

#### ★ Certifications

- Lean Six Sigma Green Belt – ASQ (2023)
- Microsoft Excel Expert – 2023

### EXTRACURRICULAR ACTIVITIES

★ September 2023 - December 2024

#### President

University of Michigan Industrial Engineering Club

- Led a team of 15 members in organizing workshops on Lean practices and industrial automation.
- Coordinated industry guest speaker events, providing students with networking opportunities and insights into real-world manufacturing challenges.