

Rachel Kim, CSSGB

Industrial Engineer | Lean, Process Improvement & Supply Chain

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\$2.9M

ANNUAL SAVINGS

28%

THROUGHPUT GAIN

35%

CYCLE-TIME CUT

14

PROJECTS LED

SUMMARY

Industrial Engineer with 3.5 years of experience in lean manufacturing, process simulation, and operations improvement in distribution and production environments. Delivered \$2.9M in annual savings, improved throughput by 28%, and reduced cycle time by 35% across 14 improvement projects. Certified Six Sigma Green Belt skilled in time studies, FlexSim simulation, SAP, and data analysis with Python and Power BI.

SKILLS

Process Improvement: Lean Manufacturing, Six Sigma (DMAIC), Kaizen, 5S, Value Stream Mapping, Standard Work, Time & Motion Studies, Root-Cause Analysis, SMED

Analysis & Simulation: FlexSim, Arena, Minitab, Python, SQL, Power BI, Excel (Advanced), Capacity Planning, Line Balancing, Facility Layout, Inventory Optimization

Operations & Systems: SAP, Oracle WMS, MRP, Production Planning, Supply Chain, Ergonomics (NIOSH), OSHA Safety, MS Project

EXPERIENCE

Industrial Engineer

Jun 2023 – Present

Heartland Distribution & Manufacturing — Columbus, OH

- Lead 9 DMAIC and Kaizen projects across production and fulfillment operations, delivering \$2.9M in annual savings.
- Re-engineered pick-pack layout using FlexSim simulation, increasing throughput by 28% and cutting travel distance by 31%.
- Reduced order-to-ship cycle time by 35% through value stream mapping, standard work, and line balancing.
- Built Power BI dashboards tracking OEE, labor productivity, and on-time delivery for 120 associates; improved OEE from 68% to 79%.
- Developed ergonomic workstation redesigns that lowered recordable injuries by 40%.

Process Improvement Engineer (Co-op to Full-Time)

Jul 2022 – May 2023

Buckeye Components Inc. — Dayton, OH

- Completed time studies for 60+ operations and set labor standards that improved line efficiency by 15%.
- Cut WIP inventory by \$450K by implementing kanban pull systems and supermarket replenishment.
- Reduced changeover time from 75 to 30 minutes using SMED, adding 11 hours of capacity per week.
- Analyzed scrap and downtime data with Minitab and Pareto charts, reducing defects by 22%.

CAPSTONE PROJECT

Redesigned a 40,000 sq ft warehouse layout using simulation; projected 18% reduction in order cycle time (Ohio State ISE Capstone, sponsor: regional retailer).

EDUCATION

Bachelor of Science in Industrial & Systems Engineering

The Ohio State University — Columbus, OH

2022 | GPA 3.7

CERTIFICATIONS

- Certified Six Sigma Green Belt (CSSGB), ASQ
- Engineer in Training (EIT), State of Ohio
- APICS CPIM — in progress
- IISE Member