

Chase Alexander Kramer

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Summary: Engineering student pursuing a manufacturing or mechanical engineering internship to apply process optimization, automation, and design-for-manufacture expertise toward improving production efficiency and advancing lean initiatives. I like making people smile and am very personable and like connecting with people.

Education

Grand Rapids Community College

Expected 2026

Associate of Science in Engineering, planning to transfer to GVSU for Mechanical Engineering.

GPA: 3.97

Technical Skills: AutoCAD, SolidWorks

Extracurriculars: Rotaract Club of Grand Rapids Community College, President

Professional Experience

Challenge Manufacturing

Manufacturing Engineering Intern | Walker, Michigan

June 2025 – August 2025

- Partnered with controls engineers to optimize PLC sequences, achieving measurable reductions in downtime and improved throughput efficiency. Engineered systems for component flow improvements E.G., hoppers, tilt decks, roller-racks.
- Generated and monitored fabrication orders for tooling, fixtures, and continuous-improvement projects, ensuring alignment between production and engineering teams.
- Documented operator workflow improvements, integrating Red Rabbit error-proofing and 5S principles into daily operations to enhance safety and consistency.
- Collected and analyzed cycle-time data across robotic weld cells, identifying bottlenecks and presenting data-driven improvement proposals to engineering leadership.

Challenge Manufacturing

Production Supervisor | Walker, Michigan

January 2021 – September 2025

- Coordinated cross-functional startup of automated SPR weld cells in collaboration with Corporate Engineering, ensuring successful commissioning and process validation.
- Developed 5S-compliant part presentation systems and visual controls that improved line organization, reduced search time, and reinforced lean manufacturing standards.
- Diagnosed and resolved electrical and mechanical faults with maintenance teams, leveraging root-cause analysis to prevent recurring downtime.
- Partnered with management to evaluate scrap trends and implement corrective actions, contributing to reduced defect rates and improved first-pass yield.

Projects Showcase

Work-Center Production Improvements

Manufacturing Engineering Intern | Challenge Manufacturing

June 2025 – August 2025

- Task: Reduce operator travel, decrease cycle time per part, improve part presentation.
- How: Designed component hopper for operator to draw parts from, remove unused racking and install container tilt decks closer to operation.
- Results: Removed 6 steps from each operation, saving a total of 1,512 miles of walking by the operator per year. This decreased cycle-time by 5 seconds per operation and achieved increased product output by 31%. Thousands of dollars saved.

Ladder-Logic Program Logic Controlled Colored Ball Sorter

Personal Project

December 2025 – January 2026

- Task: Create a sorting machine for my portfolio that showcases my ability using SolidWorks, and my ability to critically design components and controls.
- How: Use my skills of SolidWorks to design part prints and compute dimensions and tolerances before creation. Use Ladder logic and coding skills to create a circuit that will reject colors other than red.
- Results: Work in Progress.

Skills: Manufacturing & Process Optimization: Cycle-time analysis, lean manufacturing, 5S implementation, Kaizen, root-cause analysis, continuous improvement

Automation & Controls: PLC troubleshooting (Allen-Bradley), ABB and Fanuc robot support, Red Rabbit error-proofing, sensor calibration

Design & Technical Tools: SolidWorks, AutoCAD, MATLAB, Python, Microsoft Excel (VBA), PowerPoint

Quality & Data Analysis: SPC charting, GD&T, MSA, defect tracking, production reporting Leadership & Communication: Team supervision, cross-functional collaboration, operator training, technical documentation, mentoring.