Chase Alexander Kramer

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Coopersville, Michigan

Education

Grand Rapids Community College **Expected May 2027**
Associate of Science in Engineering GPA: 3.97
Extracurriculars: Rotaract Club of Grand Rapids Community College, President
Applied Engineering and Guided and Innovation Society, Founder/President

Professional Experience

Waste2Nano
Mechanical Engineer | ***Remote*** *March 2026 – June 2026*

- Performed thermal/hydraulic analysis and Fusion360 modeling for a trailer-mounted waste heat recovery system; developed component BOM, pump/piping selection, electrical hardware selection.

Knape & Vogt Manufacturing Company
Manufacturing Engineering Intern | ***Grand Rapids, Michigan*** *May 2026 – August 2026*

- Analyzed 34 forklift traffic routes (DraftSight spaghetti diagram; Excel speed/turns-per-distance calcs) to drive a floor layout reconfiguration and driver reallocation; projected $400,000/yr in savings.
- Diagnosed an 18-min/shift downtime bottleneck on an assembly substation and resolved it by replacing aging sensors and remaking part-nest tooling; $950 cost, $6,000+/shift saved.
- Led a $30,000 safety and fatigue-reduction initiative: wrote startup/shutdown, changeover, LOTO, and standardized work instructions; designed SolidWorks tote stands and ergonomic workstations.
- Designed an OSHA 1910.29-compliant shipping-dock handrail in SolidWorks, optimizing stock lengths for in-house fabrication; saved $9,000 vs. a contracted install.

Challenge Manufacturing
Manufacturing Engineering Intern | ***Walker, Michigan*** *June 2025 – August 2025*

- Partnered with controls engineers to optimize PLC sequences, reducing downtime and improving throughput. Engineered component flow improvements (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.
- Analyzed robotic weld-cell cycle-time data to identify bottlenecks; presented fixes to engineering leadership.

Production Supervisor | ***Walker, Michigan*** *January 2021 – September 2024*

- Coordinated production use of automated SPR weld cells in collaboration with Corporate Engineering, ensuring part/assembly quality and process validation.
- Built 5S part presentation systems and visual controls that improved line organization and cut search time.
- Resolved electrical and mechanical faults with maintenance, using root-cause analysis to prevent recurring downtime.
- Evaluated scrap trends and implemented corrective actions, reducing defects and improving first-pass yield.

Skills

Cycle-time analysis, process mapping, lean manufacturing, 6S/5S implementation, Kaizen methodology, root-cause analysis, continuous improvement, scrap reduction, PLC troubleshooting (Allen-Bradley), Red Rabbit error-proofing, sensor calibration, preventive maintenance coordination, SolidWorks, AutoCAD, Python (data processing), Microsoft Excel (data analysis), SPC charting, tolerance analysis, defect tracking, production reporting, documentation control