Ethan Brandt

Process Engineering Intern

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SUMMARY

Chemical engineering student at the University of Wisconsin-Madison graduating in 05/2027, working a 6-month co-op in a whey protein plant. Plans plant trials with experimental design, runs data analysis in Python and Microsoft Excel, and reports results in PowerPoint. Brings attention to detail and plain communication to the production floor.

SKILLS

Microsoft Excel • Python • Data Analysis • Experimental Design • Lean Manufacturing • PowerPoint
Microsoft Word • Problem-Solving • Attention to Detail • Statistical Process Control

EXPERIENCE

Process Engineering Intern 07/2026 - Present

Driftless Dairy Ingredients Baraboo, WI

Co-op with the process engineering group of a plant drying 300,000 pounds of whey a day.

- Design a 2-factor dryer trial with experimental design methods that raised protein yield **3.1%** without moisture failures.
- Extract 6 months of evaporator data into Python and flag fouling 2 days before each cleaning cycle.
- Map packaging changeovers with lean manufacturing tools, cutting the average changeover from 52 to 38 minutes.
- Write 5 work instructions in Microsoft Word and train 14 operators on a revised CIP checklist.

Quality Control Lab Assistant 05/2025 - 08/2025

Lakeside Ferment Co. Middleton, WI

Summer job in the quality lab of a regional brewery.

- Tested pH, gravity and dissolved oxygen on **30+** batches per week and logged results in Microsoft Excel.
- Built a statistical process control chart for fermentation temperature that the brewmaster now reviews each morning.
- Identified a faulty glycol valve behind 2 off-flavor batches through problem-solving with the cellar team.
- Performed weekly calibration of 4 benchtop meters and kept records ready for the state inspection.

EDUCATION

Bachelor of Science 05/2027

University of Wisconsin-Madison Madison, WI

Chemical Engineering

CERTIFICATES

Lean Six Sigma Yellow Belt

Council for Six Sigma Certification

03/2026