

James Kline

Chemical Engineering Student

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Education

Case Western Reserve University - Cleveland, OH

Bachelor of Science in Engineering, Chemical Engineering

Minor: Business Management | GPA: 3.43 | August 2022 - Expected May 2026

- Relevant Coursework: Chemical Engineering Lab, Process Design & Safety, Separation Processes, Chemical Reaction Engineering, Transport Phenomena, Measurements Lab
- Activities: Varsity Football Team – 4 years

Technical Skills

- Engineering Tools: COMSOL Multiphysics, Aspen Plus, LabVIEW
- Software: Microsoft Office Suite, Origin
- Core Skills: Process Simulation, Data Analysis, Technical Communication, Lab Techniques

Experience

CWRU Department of Chemistry - Cleveland, OH

Researcher, Burda Group | May 2025 – August 2025

- Operated and calibrated water activity sensors over 20+ hours per week to evaluate ionic liquid-water interactions to inform optimization of flow battery technology
- Compiled results using Excel and graphical analysis to visualize trends in ionic liquid hydration
- Met weekly with Dr. Burda to present progress, clarify data interpretations, and align on project goals

Covestro - Pittsburgh, PA

STEM Internship | May 2024 - August 2024

- Analyzed demolition proposals and presented executive summaries that informed contractor selection decisions.
- Conducted research on 15+ energy storage markets and emerging technologies, supporting future sales targeting strategies.
- Consolidated global market share data across teams in Europe, Asia, and North America to generate competitive insights.

The Fresh Market - Mt. Lebanon, PA

Produce Team Member | June 2022 - August 2022; Dec 2022 - Jan 2023

- Managed inventory rotation and merchandising for optimal product freshness and customer satisfaction.
- Prepared and displayed produce in a high-volume retail environment, maintaining compliance with food safety standards.

Leadership & Extracurricular Activities

- Case Western Reserve Football Team - 2x Presidents' Athletic Conference Academic Honor Roll
- High School Wind Ensemble & Jazz Ensemble - Leadership roles in competitive musical groups