C. James Nesbit IV (CJ)

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ABOUT

Chemical Engineering student at the University of Dayton with a passion for advancing energy systems and solutions. Skilled in data analysis, computer programming, and software literacy. Proven ability to deliver accurate, high-quality results through effective team collaboration. Actively seeking opportunities to apply technical skills to solve real-world energy and engineering problems.

EDUCATION

University of Dayton, Dayton, OH   December 2026
Bachelor of Science, Chemical Engineering
GPA: 4.0/4.0

Sinclair Community College, Dayton OH   December 2024
Associate of Science, Computer Science
GPA: 3.76/4.0

Sinclair Community College, Dayton OH   July 2024
Associate of Science, Chemistry
GPA: 3.76/4.0

RELEVANT COURSEWORK

Excel Engineering Computations	Material & Energy Balances	Chemical Engineering Thermodynamics
General & Organic Chemistry	C++/Java Software Coding	Calculus I, II, III, Differential Equations

WORK EXPERIENCE

University of Dayton Research Institute, Dayton OH   October 2024 - present
Fuel Science Intern
- Analyzed gas chromatography, mass spectrometry, and dielectric constant data of 70+ international aviation turbine fuels (jet fuels) to correlate and model various fuel properties, increasing quality and accuracy of data by up to 30%.
- Used simulated distillation software to generate over 100 distillation points for each jet fuel. Assured quality of these points by adhering to interlab study reproducibility standards.
- Collaborated with a team of 4-7 other research professionals to deliver accurate results efficiently.
- Contributed to multiple upcoming research publications (FAA World Fuel Survey) and publications.

University of Dayton Research Institute, Dayton OH   January 2025 - present
Chemical Process Intern
- Will be assisting with the development of a mobile petroleum desulfurization unit to turn high sulfur jet fuels into low sulfur diesel fuels.
- Developed the technical data package draft for the unit's design. The technical data package contains information about manufacturing processes, chemical processes, and safety requirements.

TECHNICAL PROJECTS

Personal Website, Dayton OH   January 2025 - present
Front-end Website Developer
- Designed and created a personal website to act as an expanded online resume and total catalog of my academic progress and achievements.
- Applied effective time and project management skills to develop the entire project in two weeks. Now proudly hosted at cjnesbit.com.