

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

Aerospace Product Support Engineering 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 www.cjnesbit.com.