

# 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 May 2027  
Bachelor of Engineering, 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	Engineering Innovation

## 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](https://www.cjnesbit.com).