

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

Fuels & Combustion 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.

University of Dayton Research Institute, Dayton OH

January 2025 – present

Aerospace Product Support Engineering Intern

- Assisted with the development of a mobile petroleum desulfurization unit to turn high sulfur jet fuels into low sulfur diesel fuels.
- Applied digital design strategies and verified sulfur conversion rates for the quality control section of the project.

TECHNICAL PROJECTS

Chazzy's Kitchen & Catering, Dayton OH

July 2024 - present

Front-end Website Developer

- Designed and created the upcoming website for Dayton restaurant business known as Chazzy's Kitchen and Catering.
- Advised and guided owner of the business with web design, SEO tactics, and budgeting.