

DIONNI CAMPBELL

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Current Address: University of Florida - 1015 NW 21st Ave Gainesville, FL 32609

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Education

- **University of Florida, Gainesville, FL**
 - Undergraduate Honors Student - May 2025
 - Major: Mechanical Engineering Minor: Economics
 - Certificate: Sustainable and Resilient Energy Engineering Certificate
 - Overall GPA: 3.80
 - **Relevant Courses**
 - Mechanics of Materials - Dynamics - Heat Transfer
 - Thermodynamics - Controls - Finite Element Analysis
 - Mechanical Design - Fluid Mechanics - Design and Manufacturing Lab

Projects and Relevant Experience

- **SULI National Renewable Energy Laboratory Internship, Summer 2024** **Golden, CO**
 - Identified and optimized key parameters in NREL's SAM and analyzed their effect on industrial solar thermal performance for new STEP1 tool.
- **Industrial Dryer System Project, Fall 2024 – Present** **Jacksonville, FL**
 - Created a computational fluid dynamics model to evaluate an industrial dryer system and make improvements for a potential 75% reduction in energy consumption and reduction of carbon emissions of the system overall.
- **Industrial Assessment Center, Fall 2023 – Present** **Gainesville, FL**
 - Perform energy audits to manufacturing facilities across North and Central Florida and create reports to help them increase energy efficiency and save money.
- **Gen 3 Concentrated Solar Power Research Project, Spring 2022** **Gainesville, FL**
 - Worked to identify new technologies in CSP to reduce costs to the US Department of Energy's \$0.06 target.

Skills/Certifications

- **Software:** Microsoft Office, MATLAB, Python, SOLIDWORKS, Fusion 360, SAM
- **Certification:** Solidworks Associate: Mechanical Design
- **Machines:** Mill, Lathes, Drill Press, Band Saw

Activities

- UF in Iceland Study Abroad, Summer 2024
- Member of National Society of Black Engineers, Fall 2022 – Present
- Member of Student Design Competition, Fall 2022
- UF in Lilie Study Abroad, Summer 2022
- Member of Solar Gators (Solar Array Team), Fall 2021 – Spring 2022

Honors/Awards

- Dean's List, Spring 2022 - Spring 2024
- Horatio Alger Engineering Scholarship, Fall 2023 – Fall 2024
- Duke Energy Scholarship, Fall 2023
- President's Honor Roll, Fall 2021