

Neil Jackson

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, *B.S in Mechanical Engineering*

Atlanta, Georgia
June 2020 –December 2024

- Zell Miller Scholarship
- Accepted into Graduate Studies in Mechanical Engineering
- Dean's List for 2 semester, Faculty Honors for 1 semester
- GPA: 3.800 / 4.000
- Engineering Courses Taken: Fluid Mechanics, Thermodynamics, Dynamics, Drafting, Circuitry, Materials, MATLAB

GEORGIA INSTITUTE OF TECHNOLOGY, *M.S in Mechanical Engineering*

Atlanta, Georgia
August 2023 –May 2025

- Accepted into B.S.M.S Program, allowing me to start Graduate Studies and overlap them with Undergraduate Studies
- Plan to focus Graduate Studies on materials

EXPERIENCE

SCIENTIFIC RESEARCH CORPORATION

Atlanta, Georgia

Intern, Engineer - Junior

July 2022 - August 2022

- Worked full time doing extensive CAD work on company systems using SolidEdge and SOLIDWORKS.
- Modeled components based off drawings, physical objects, and the needs of our systems.
- Revised and enhanced outdated engineering drafts.
- Analyzed test data from specific systems to ensure they were functioning properly.
- Presented key tasks accomplished at the end of the internship.
- Applied for a security clearance at the secret level.

PHI KAPPA TAU, ALPHA RHO CHAPTER

Atlanta, Georgia

Steward, Risk Manager, Scholarship Chair

November 2020 – November - 2022

- Communicated with Chefs Menu to ensure faster, better food service for brothers.
- Signed agreements with Blue Donkey Coffee to get wholesale deliveries. Our meal plan includes coffee due to this.
- Organized risk management presentations regarding fire safety and sexual assault prevention
- Incentivized positive academic achievement by organizing semesterly Scholarship Banquets.

PROJECTS

HYDRAULIC JUMP TESTING

Atlanta, Georgia

Fluid Mechanics Group Project

August 2022 - December 2022

- We predicted jump behavior from fluids Froude Number and the Bélanger Equation.
- Experiment was conducted using a Laboratory Flume at Kennesaw State University.

CARBON CAPTURE TECHNOLOGY

Atlanta, Georgia

Thermodynamics Individual Project

August 2022 – December 2022

- Analyzed how much CO_2 humans produce yearly and the requirements to decrease emissions to net zero by 2050.
- Observed the benefits of Direct Air Capture systems from a financial and Second Law perspective.

CAD PROJECTS

Atlanta, Georgia

Engineering Drafting and Design Projects

August 2021 – December 2021

- My Group and I designed a Grill having an adjustable grate separation distance, dubbed the 'Great Grate Grill'.
- I designed and 3D printed a hollow Kettle Bell that has a removable lid.

SKILLS / INTERESTS

Skills: Engineering Material Properties and Principals, Calculus 1 – 4, System Dynamics, Fluid Mechanics, Thermodynamics, Solid Mechanics, Circuit and Electronics Analysis, Statics, Dynamics of Rigid Bodies, Electromagnetic Principals, Newtonian Mechanics, Technical Writing and Communication

Programs: SOLIDWORKS, Solid Edge, AutoCAD LT, MATLAB, Python, Microsoft Office

Activities: Georgia Tech Yellow Jacket Marching Band [Percussionist], Aero Maker Space Mentor

Interests: Material Properties, Nuclear Engineering and Radiation Physics, Swimming, Weightlifting, Reading, Chess,