

David Harrington

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Mechanical Engineering

Dean's List

Intended Minor: Industrial Design

Atlanta, Georgia

Expected Graduation: May 2027

Cumulative GPA: 3.79/4.0

SKILLS

Relevant Courses: Materials Science Eng, Dynamics of Rigid Bodies, Physics (Electromagnetism), Differential Calculus, Numerical Methods (MATLAB)

CAD: SolidWorks, CATIA **Machines:** TRAK lathe, TRAK mill, Okuma CNC, Bandsaw **Coding:** MATLAB, Introductory

Python **Engineering Processes:** G&DT, Engineering Drawings, Prototyping **Misc:** Videography, Intermediate Spanish, Oral Communication, Videography, Microsoft Office

RELEVANT EXPERIENCE

Georgia Tech Robot Forging Research

Research Assistant

Atlanta, Georgia

Fall 2024 - Present

- Developing a robotic forging system integrated into an **Okuma CNC** machine, designed to manufacture complex forged parts through repeated incremental deformations.
- Completion of robot forging system will **reduce energy consumption** and open new/unique part geometries.
- Leading the design and fabrication of a mounting system for an induction heating coil onto a robot arm, ensuring accurate positioning and stability under operational loads.
- Utilizing **SolidWorks** and **machining** to develop mechanical parts for rapid **prototyping** and testing.
- **Communicated** with various induction heating companies to purchase a unit that fit under our 5kg weight and 30 second reheating speed restrictions
- Gaining Mechanical Aptitude by learning the strengths and weaknesses of various machining processes.

ADDITIONAL EXPERIENCE

Toastmasters Leadership Program

Refined **communication skills** and **leadership** abilities by delivering over 5+ speeches

Los Angeles, California
Summer 2023

- Strengthened communication and leadership skills through 10+ sessions in the Toastmasters leadership program, enhancing technical presentations and constructive feedback

PROJECT EXPERIENCE

Affordable Clean Energy Project

ME 1670

Atlanta, Georgia

Fall 2023

- Our product utilized water flow in rivers to generate energy which would be stored and used to purify/irrigate water into nearby communities
- The main challenge of this project was the design and coordination of all our parts in the main assembly under a 1 ½ month time constraint. This facilitated growth in communication skills and time efficiency
- Designed the battery storage and charging compartment from the point of ideation to a CAD model using **Engineering Drawings, SolidWorks and Prototyping.**

CAMPUS & COMMUNITY INVOLVEMENT

Finance Coordinator ~ Nelson Shell Residence Hall

Manage a budget of \$2500 for 400+ residents using **Excel**

Fall 2024 - Present

- Guide students through reimbursement and purchasing processes for hall events and activities
- Hold weekly hall council meetings where I engage with residents and facilitate their ideas for residence hall improvements.

Georgia Tech National Society of Black Engineers

Member

Fall 2023 - Present

Bridge Builders Foundation

Scholar

Spring 2023 - Present

