

# Rigdon Hynum

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## EDUCATION

**Clemson University:** Class of 2029, GPA 4.0

**Greenville High School:** Class of 2025, GPA 5.44

### Notable Coursework in Honors Mechanical Engineering

Multivariable Calculus, Differential Equations, Physics I with Calculus, Intro Material Science, Spanish Conversation

## EXPERIENCE

### Baja SAE

*Data Acquisition Lead*

2025-CURRENT

- Rebuilt data acquisition system and learned RaceStudio3, providing the team with data to validate design
- Designed a new live radio telemetry system with a Raspberry Pi and custom built Python interface

### D2 Energy Mercor

*Data Analytics and Processing Intern*

SUMMER 2025

- Developed python-based Docker to run daily on an AWS EC2 instance
- Processed and analyzed NOAA NDFD and Oregon State PRISM weather data to input to machine learning models
- Created plots with GRIB data to aid visualization of weather patterns to guide energy trading decisions

### Science NIS Research and Independent Rocket

*Engineering research projects*

2023-2024

- Designed, 3D printed, and built a water rocket to research the effects of different fin shapes on roll and drag
- Built and coded an Arduino based 9-DoF IMU sensor system to collect flight data for research
- Fully 3D printed a second rocket focusing on modularity and cooling to improve reusability and repairability

### Garver

*Water Engineering Intern*

SUMMER 2024

- Worked on design and quality control of civil site design and process engineering projects
- Cooperated with a team of engineers to deliver a finished design meeting customer specifications
- Gained an understanding of the function, operation, and controls of water and wastewater treatment plants

### 3D Modeling, FDM Printing and Game Programming

*Blender, Solidworks, and BeamNG.drive*

2022-2026

- Programmed multiple mods for the soft-body physics game BeamNG, one receiving nearly 30,000 downloads
- Printed and built a remote-control formula car, handling flexible filaments and printed parts interfacing with external purchased components such as bearings and motors
- Earned a SolidWorks Associate certification and learned how to model a mechanical system off a physical part

### Swim Team

*State qualifier*

2016-2025

- Year round club Team Greenville for 10+ hours a week since 2016. Placed in the top 100 in South Carolina in the 100 and 200 Yard Breaststroke and the 500 and 1650 Yard Freestyle.
- State qualifier for High School team every year, received the Coach's Award in 2023 and team captain 2024-2025

## CERTIFICATIONS

- Spanish Seal of Biliteracy - State of South Carolina Department of Education
- SolidWorks Associate - ID: C-SZYTVB5PA4

## VOLUNTEERING

- President of Interact Club, organized park cleanups and an American Foundation for Suicide Prevention charity walk. Volunteered mentoring and tutoring underprivileged students at Hollis Elementary (2022-2025)

## ADDITIONAL SKILLS

Proficient in Python, Javascript, Arduino, and MATLAB programming, FDM printer maintenance, fluent in Spanish.