

ANDREW M. BONVILLE

## EDUCATION

### 0.04 North Carolina State University, Raleigh, NC

B.S. in Aerospace Engineering, Ongoing  
GPA: 3.9/4  
Relevant Courses: Aerodynamics and Experimental Aerodynamics 1, Solid Mechanics, Thermodynamics, MATLAB, Dynamics, Introduction to Aerospace Engineering and Aerospace Vehicle Performance.

### Sandhills Community College, Southern Pines, NC

Associates In Science, Summer 2023  
GPA: 3.6/4  
Relevant Courses: Calc 1,2 &3, Differential Equations, Physics 1 & 2, Statics.  
General Physics Award Recipient - highest grade in University level physics at SCC.

## TECHNICAL SKILLS

SolidWorks Certified, Welding, Metalworking, Woodworking, MapleSoft and MATLAB.

## WORK EXPERIENCE

### Server/Line Cook, Ironwood Cafe, Southern Pines, NC February 2021 - August 2023 | 10-35 hours per week

Engaged in all facets of food preparation, ensuring high-quality standards were met consistently.

Delivered exceptional customer service by attending to guests' needs with the utmost satisfaction as the primary goal.

Maintained a pristine work environment through rigorous cleaning and sanitation practices.

Displayed quick and decisive problem-solving abilities in addressing challenges and ensuring smooth restaurant operations.

### Construction, Bonville Construction, Pinehurst, NC May 2020 - August 2020 | 40-50 hours per week

Executed duties as a versatile general laborer in the construction industry.

Proficiently operated a variety of power tools and equipment tailored to specific job requirements.

Demonstrated strong teamwork skills by effectively collaborating with colleagues, circumnavigating language barriers to enhance overall project efficiency.

## ACADEMIC PROJECT EXPERIENCE

0.47 **Introduction to Engineering (2022)** - Designed working "tank" suspension system from clothes pins.

### Final Project for Intro to Engineering

Instructions were to "elaborate and expand upon a previous unit's project." I chose to expand my work with simple machines and robotics, making a lever based suspension system for a tracked vehicle.

### Math Papers (2023)

Provided a brief history of the Navier-Stokes equations and use cases. Derived and explained the conservation of momentum equations within the Navier-Stokes equations

Discussed the applications of vector spaces and literature of the theory behind them from the perspectives of multivariate calculus and linear algebra.

## HONORS AND ACTIVITIES

### NCSU High Power Rocketry Club

Working on an airbrake system with the experimental side of NCSU solid rocket fuel team.

### Formula Car Project

Designed chassis, engine accommodation and suspension geometry for a formula style race car as a personal project

### Avid self taught mechanic

Lots of experience taking apart and replacing major components like engines, transmissions, and supporting systems of Hondas, Subarus, and select Volkswagens.

### Boys and Girls Club Volunteer (2022)

Served as a tutor and assistant leader for The Boys and Girls Club