

# Ben Simon

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## Objective

To obtain a Mechanical Engineering internship for Summer 2025, expand my technical and communication skills, and grow as a passionate aspiring engineer.

## Education

**Bachelor of Science in Mechanical Engineering**

**Clemson University Honors College / Departmental Honors Research**

Clemson University

Spring 2026

3.85 GPA

## Projects

**Clemson Formula SAE Club** Fall 2022 - present

- Designed, modeled, and validated a Carbon Fiber Sidepod using Solidworks and Ansys Fluent
  - Designed Solidworks assemblies, parts and drawings with packaging and performance in mind
  - Conducted CFD simulations optimizing for Mass Flow Rate and Heat Transfer Rate targets
  - Fabricated Carbon Fiber parts using a variety of weaves, orientations, cores, and layup schedules
  - Validated system using pressure sensors and thermocouples, tufts, and oil drop flow-vis. testing
- Optimized and revamped our Excel database used to index weights of all parts and hardware across each division (aero, composites, powertrain, etc.) and each section of the car
- 10 hrs/week

## Work Experience

**Internship, Crane Instrumentation and Sampling** Summer 2024 / Spartanburg, SC

- Restored and implemented communication interface tablets to meet operator and manager goals
  - Created automatic monthly audits and automatic weekly emails to communicate critical KPIs to managers and keep system in use
- Attended Kaizen in which we used CBS philosophy and 5S to reduce operator steps taken, setup time, and changeover time for mills all by over 70%
- Created Solidworks assemblies, parts, and drawings for valve wire-hole machining fixtures, o-ring installation tools, and chuck jaws

**Internship, Approach Aviation and Socialflight** Spring 2018 - 2022 / Marlborough, MA

- Building a Titan T-51 Aircraft (metalwork, electronics, hydraulics, and engineering/design process)
  - Fabricated Aluminum skins, seat enclosure, and floor panels
  - Modeled electrical solution to complex gear warning system with a breadboard
  - Wired battery system to auxiliary power connectors for future charging with APU
- Designed and implemented enhancements to website and app to improve user experience and interaction
  - Created graphics to showcase and sell products to a targeted audience

## Technical Skills

- Ansys Fluent CFD, Ansys Static FEA, Solidworks CAD, Microsoft Excel Programming, Matlab, Photoshop

## Certifications

- Ansys Associate Certification: Basics of Fluid Dynamics - Summer 2023
- Solidworks Associates Certification - Spring 2023
- FAA Private Pilot ASEL - Fall 2020
- Completed 6 hour "Introduction to Modern Computational Fluid Dynamics Course" from the ASTFE