
Abbey Carlson

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Education:

Vanderbilt University | May 2020

Bachelor of Engineering: Mechanical Engineering
Prospective Minors: Material Science, Mathematics
GPA: 3.23/4.0 Engineering GPA: 3.44/4.0

Relevant Course Work:

- Gas Dynamics
- Aerospace Propulsion
- Numerical Math
- Machine Analysis and Design
- System Dynamics

Internship Experience:

The Boeing Company: Systems Engineering Intern

May 2019 – August 2019

- Collaborated with Modeling and Simulation team to troubleshoot problem reports related to LabVIEW and C++ software created for the SLS Core Stage Green Run.
- Assisted in developing and running structural analyses for various assemblies across MQ-25, CCTS, and SLS programs.

Triumph Group: Manufacturing Engineering Intern

May 2018 – August 2018

- Created and updated product integrity instructions for the Airbus A330 Top Panel and Leading Edge assembly line.
- Utilized Microsoft Excel to help develop a new machining capacity chart to APICS standards for Airbus, Gulfstream and Cessna Programs.
- Member of a corrective actions team working to minimize product defects throughout manufacturing process.
- Worked in SAP and MES to assist with assembly plan updates and modifications.

Project Experience:

Eagles Nest Projects RV-12 Build

August 2015 – April 2016

Completed an aviation class during high school in which myself and 10 other students built a RV12 light sport aircraft which was inspected, certified and received FAA airworthiness in April of 2016. The aircraft was then used for private pilot training.

Academic Awards and Honors:

- Recipient of the William H. Rowan Scholarship - Vanderbilt University
- Spring 2017 Vanderbilt Dean's List
- 2017, 2018 and 2019 SEC Academic Honor Roll

Certifications and Skills:

- FAA licensed private pilot - single engine airplane (Certificate number 3997419)
- Proficient in CREO Parametric, MATLAB, LabVIEW, Excel, Word, and PowerPoint.
- Experience with Mathematica, C++, Patran, Nastran, Abaqus, VBA Programming, and ERP software.
- Machining experience using lathes, mills, grinders, and saws.

Intercollegiate Athletics:

- Vanderbilt University Division 1 Women's Golf Team
- 2019 SEC Women's Golf First-Team All-Conference & Community Service Team member
- 2019 Arnold Palmer Cup – Team USA Representative
- Student Athlete Advisory Council Representative

Volunteer/Work Experience:

- Student Teacher - Vanderbilt Student Volunteers for Science
- Middle School Math Tutor
- Vanderbilt Golf Camp Counselor

Extracurricular Activities:

- Theta Tau Professional Engineering Fraternity: 2019 Academic Chair
- Vanderbilt Aerospace Design Lab: Senior Team Member (2019 NASA Student Launch Champions)