

Brennan J. Scheffler

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EDUCATION

University of Delaware

Bachelor of Science, College of Engineering

Degree: *Mechanical Engineering; Aerospace Engineering Concentration; Mathematics Minor*

GPA: 3.89 [Dean's List each semester]

Newark, DE

Graduating May 2020

RELEVANT EXPERIENCE

Piasecki Aircraft Corporation

(R&D) Engineering Intern

Essington, PA

December 2019 – March 2020

- Led the assembly of an unmanned Group 3 fixed-wing government funded technical demonstrator; ensuring all parts met with strict quality requirements prior to implementation
- Developed and implemented design improvements utilizing DFMA methodology to enhance performance while optimizing weight, reproducibility, and cost
- Ensured proper revision control and technical document creation using SOLIDWORKS PDM 2019
- Continuously updated the aircraft's Bill of Materials and created a technical procedure ensuring standardization of aircraft assembly

GE Aviation

(Manufacturing) Engineering Intern

Newark, DE

June 2018 – August 2019

- Firsthand experience with the various Ceramic Matrix Composite (CMC) production steps (ex. Lay-up, Autoclave, GERBERcutter, tool design with Siemens NX)
- Improved yield of engine program's CMC parts by redesigning 20+ tools (RTV molds, Lay-up aids, cut fixtures and ply shapes) using Siemens NX and clarifying standardized work instructions based off observation, senior engineer advise and technician insight
- Six Sigma Green Belt and LEAN Manufacturing training; strengthened DOE and statistical research skills learned through collegiate level statistics courses
- Increased part movement efficiency through the CMC manufacturing process by discovering and reducing bottlenecks
- Developed an Excel VBA macro to automate case record creation, reducing lead manufacturing and design engineer's file management time by more than one hour a day

UNIVERSITY INVOLVEMENT

Aero Society of Automotive Engineers (ASAE) Design Team

Member of Fuselage Team

University of Delaware

Senior Design Fall 2019

- Designed and built fully operational RC model airplane within the constraints of budget, SAE Aero's advanced class rules and regulations to compete in the collegiate east SAE Aero Design Competition
- Collaborated with sub-team to design and build an aerodynamic and robust fuselage which seamlessly integrated with the wings and control components fabricated by other sub-teams
- Implemented knowledge of GD&T for manufacturing of 30+ laser cut, 3D printed and machined fuselage components
- Strengthened communication, CAD and manufacturing skills with cross functional teamwork and background research to build an operational aircraft
- Delivered technical presentation on our aircraft's design, fabrication, and testing processes to a panel of professional engineers

Mechanical Engineering Curriculum

Team Leader

University of Delaware

Junior Design Spring 2019

- Invented a low-cost solution for Siemens Healthcare Diagnostics (Newark, DE), which prevents the spillage of medical cleaning solution as bottles move on a commercial conveyor belt
- Gained experience leading a team of classmates and delivered technical presentation to our customer

Tau Beta Pi

Member of Prestigious Engineering Honors Society

Newark, DE Alpha Chapter

Initiated Spring Semester 2018

- A prestigious engineering honors society that identifies those who demonstrate distinguished scholarship and exemplary character as engineering students. Elected individuals rank in the upper eighth of their junior engineering class or upper fifth of their senior or graduating engineering class.

TECHNICAL SKILLS

- Prototyping Skills: hand and power tools, 3D printers, milling, laser cutting, solid modeling, and soldering
- Programming: MATLAB and Python
- Engineering Software: SOLIDWORKS, Siemens NX, Minitab, Gerber CutWorks, AutoCAD, and CES
- Computer: Microsoft Office (Word, PowerPoint, Excel, Visio, VBA, Teams), Skype for Business, Zoom, and Slack