

Evan Cathers

Degreed Mechanical Engineer (MSME) as of May 2022
Proven record of reliability, commitment, and versatility
Collaborative, detail-oriented team player

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HIGHLIGHTS

- Strong background in mechanical/aerodynamic design, numerical modeling, and wind tunnel analysis
- 7+ years of proficiency in SolidWorks, Autodesk Inventor, AutoCAD
- 3+ years of experience conducting finite element analysis and computational fluid dynamics (ANSYS Mechanical, Fluent)
- Skilled verbal communicator with formal presentation and written report experience
- High level of technical curiosity in aerospace engineering field

PROFESSIONAL EXPERIENCE

Georgia Southern University – Aerospace Research Program Mentor (NSF/DOD funded)

May 2021 – August 2021

Coached several high-achieving undergraduate engineering students through topics in the aerospace industry

Led several design review meetings, aiding in the selection and modeling of 3 subsonic aircraft wings and corresponding winglet structures

Assisted with the completion of several fluid dynamic simulations, determining lift and drag generation

Guided experimental design and data analysis of wind tunnel testing, including sensor selection and characterization

Marvin Windows & Doors – R&D Engineering Co-op

May 2017 – August 2018

Designed components to be 3D printed or injection molded for use as rapid prototypes, industrial fixtures, and end-use components

Managed as project lead for 6 R&D projects

Modified and submitted detailed drawings and bills of materials for 17 ECNs to be reviewed and released (in-house software)

Performed tolerance analysis on components of several product lines to ensure dimensional accuracy (Six Sigma approach)

Hosted monthly product performance audit tests and hosted resulting report outs with upper-level management

Communicated regularly with suppliers and vendors to coordinate new component designs and material selection

EDUCATION

Tennessee Technological University
B.Sc. in Mechanical Engineering
Focus on materials science
May 2020

Georgia Southern University
M.Sc. in Mechanical Engineering
Research in aerospace field
GPA 3.87 - May 2022

ACTIVITIES

Senior Design Project in Conjunction with Air Force Research Lab
Tennessee Technological University
2020

Seismic Loading Research
Georgia Southern University
(2021-2022)

OTHER SKILLS

Microsoft Office suite
MATLAB + Simulink
MicroPython, C++
Hand tools
Fabrication equipment
PLC Programming

OTHER EMPLOYMENT

Reclaimed Professional Refinishing Services
Preparation and Paint
(2022)
Richmond Hill, GA

Academy Sports + Outdoors
Shipping Associate, Inventory
(2018 – 2020)
Cookeville, TN