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Colin M. Watson
Open to relocation

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Highly motivated aerospace engineering student with >2 years of engineering experience seeking a Fall 2022 internship.

EDUCATION

University of Oklahoma: Junior Aerospace Engineering Major (**3.87/4.00 GPA**) Aug. 2019 – May 2023

EXPERIENCE

Relativity Space – Structures Intern Summer 2022 (**2 months**)

- Will work with the structures team to help design parts of the Terran R rocket and its launch infrastructure

Kratos Unmanned Systems – Flight Sciences Intern June 2021 – August 2021 (**3 months**)

- Used engineering first principles to develop a MATLAB program and GUI to parse through and analyze millions of lines of flight data
- Reduced data processing for each flight from 2 weeks to < 30 minutes
- Worked with full-time engineers to test and optimize a proprietary mass properties management code

Project Boom – Founder/Captain/Aerodynamics Lead (www.theprojectboom.org) April 2020 – Present (**1.5 years**)

- Serving as team captain and leading the entire team to design, build and fly a supersonic drone
- In charge of vehicle integration and manufacturing
- Working with structures and manufacturing teams to develop the carbon fiber structures and tooling for our aircraft
- Working with industry sponsors and advisors to organize engineering reviews and fundraise (Current amount is >\$50,000)

FSAE Sooner Racing Competition Team - Active Aerodynamics Lead September 2019 – Present (**2 years**)

- Leading the design and manufacturing of the vehicle's custom active aerodynamic system, including component selection, mechanical and aerodynamic design, and controller development
- Designed a lightweight high-performance carbon composite undertray

OU Heat Transfer Laboratory - Undergraduate Research Assistant August 2020 – May 2021 (**11 months**)

- Identified inaccurate thermocouple readings in the lab's fluid research loop and partially redesigned the system to fix the issue
- Ran hundreds of validation tests on the fluid loop and compared results to published research papers
- Used the loop to perform novel research on the heat transfer characteristics of phase change material slurries

OU Student Government Executive Cabinet - Interior Committee September 2019 – Dec. 2020 (**1 year**)

- Worked with the student congress and Greek councils to organize campus improvement projects, including food drives, educational events, and philanthropy events

Pi Kappa Alpha Leadership September 2019 – Present (**2 years**)

- Served as philanthropy chair and raised over \$7,000 before being elected as the current chapter Treasurer
- Currently managing the chapter's \$750,000 annual budget

RELEVANT COURSES (*Through Spring 2022*)

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|----------------------------------|--|--------------------------|
| ▪ Aerodynamics | ▪ Wind Tunnel Lab | ▪ Circuits and Sensors |
| ▪ Solid Mechanics | ▪ Thermodynamics | ▪ Physics 1 & 2 |
| ▪ Control Systems | ▪ Statics | ▪ Calculus and Diff. Eq |
| ▪ Numerical Methods w/
MATLAB | ▪ Dynamics | ▪ C Programming |
| ▪ <i>Embedded Systems</i> | ▪ <i>Interactive Design Simulation</i> | ▪ <i>Aero Structures</i> |
| | ▪ <i>Flight Mechanics</i> | |

SKILLS

- | | | |
|----------------------------------|-----------------------------|----------------------|
| ▪ MATLAB | ▪ Programming (C & Java) | ▪ LabView |
| ▪ CAD (SOLIDWORKS &
Inventor) | ▪ Tig Welding | ▪ Team Leadership |
| ▪ Composite Manufacturing | ▪ Microsoft Office Products | ▪ Project Management |

** References available upon request **