

# M/H Matthew Hopwood

407-558-0473  
matthew.hopwood@knights.ucf.edu  
Orlando, FL  
www.matt-hopwood.com  
linkedin.com/in/matthew-hopwood-307a4a148/

## EDUCATION

Aerospace Engineering B.S.  
University of Central Florida  
May 2020  
In-Major GPA: 3.31 | UCF GPA: 3.21

## SKILLS

Star-CCM+, ANSYS Fluent, Nastran  
SolidWorks, Autodesk Inventor  
MATLAB, Mathcad, Python, C  
XFOIL, XFLR5, Orbital STK - AGI  
Microsoft Office (Excel, Word, etc.)  
ArcGIS, LabVIEW  
Teamwork, Organization, Communication

## COURSEWORK

Aerothermodynamics of Propulsion Systems  
Analysis of Aerospace Structures  
Flight Mechanics  
Kinematics of Mechanisms  
Small Satellite Payloads and Integration Design  
Space Systems Concepts

## HONORS

UCF Pegasus Gold Scholarship  
Kohler Scholarship  
Bright Futures Florida Medallion Scholars  
Earned an International Baccalaureate Diploma

## ABOUT ME

Excited to apply education and personal project knowledge to practical applications in the workforce. Enjoy team projects, extracurricular sports (running and rowing), and my dog Molly. Looking forward to one day earning a recreational pilot license.

## EXPERIENCE

Intern

Singhofen & Associates Inc. / Orlando, FL / September 2018 – December 2019

- Worked with python to optimize data analysis/processing
- Finalized data into professional figures/reports
- Created and gave professional presentations to entire company

## EXTRACURRICULAR

Small Jet Engine with EDF Intake | 2020 - Present

- Utilizing an Electronic Ducted Fan (EDF) Power System as an air intake for small jet engine
- Working on CAD model for CFD analysis on internal flow
- Using python code for quick engine parameter calculations

AIAA Design, Build, Fly (Senior Design Project) | 2019 - 2020

- Designing & Building banner carrying plane (5' wingspan)
- Created CAD model for CFD analysis on plane
- CFD focused on meshing, force reports, analysis of scalar plots
- Wrote python code for quick initial parameter calculations, plane optimization through CFD analysis & iterative design process

UCF AIAA Rocket League | 2018-2019

- Gold Division | Launched Rocket to ~500m, deployed custom built payload
- G class rocket motor
- Modeled in OpenRocket, Fins/Payload modeled in SolidWorks

Running Club at UCF | 2018 – 2020 | Acting Treasurer

- Planned and presented yearly budget to Student Government
- UCF swept top three at Ragnar Trail Atlanta (Ultra Team)
- Ran Miami Marathon 2020

FIRST FTC Robotics | 2016 | Lead Driver & Builder

- Qualified for Super Regionals at State meet as a rookie team
- Hardware and software integration
- RoboKnights – Team 9930