

Thomas J. Tahmassebi

tjtahmas@gmail.com

937-336-7565

2017 Red Cedar Dr, Apt 3A Tipp City, OH 45371

OBJECTIVE

Entry-level engineering-related career opportunity utilizing knowledge, teamwork, and technical skills gained from hands-on project experience and engineering coursework.

EDUCATION

The Ohio State University, Columbus, OH

B.S., Aeronautical and Astronautical Engineering, May 2020

General Business Minor, May 2020

GPA: 2.818

ACADEMIC PROJECTS

Supersonic Executive Jet Design Project (August 2019 – April 2020)

- Design a supersonic executive jet capable of Mach 1.4 that will meet specific design criteria. Utilize SOLIDWORKS, Fluent, and modeling software to illustrate and analyze aircraft.
- Aerodynamics Lead: Responsible for researching and modeling aircraft surfaces, as well as analyzing design using simulation software.

Background Oriented Schlieren Transonic Buffeting Reduction (August 2019 – April 2020)

- Designed, tested, and improved supercritical airfoil to reduce transonic buffeting phenomena at higher angles of attack. Utilized transonic wind tunnel with background oriented Schlieren imaging to photograph and analyze airflow.
- Experimental Lead: Fabricated supercritical airfoil for testing using SOLIDWORKS and CNC manufacturing techniques. Created transonic wind tunnel experiments to effectively test airfoil.

Buckeye Space Launch Initiative 30k Structures Team Member (January 2018 – May 2018)

- Fabricated carbon-fiber rocket body and nose for 30k Intercollegiate Rocket Engineering Competition (IREC). Used CNC molds and various techniques to create structures.

SKILLS

- **Engineering Coursework**: Helicopter Aerodynamics, Advanced Air-Breathing Propulsion, Hypersonics, Design of Atmospheric Flight Vehicles, Intro to Propulsion, Thermodynamics, Fluids, Numerical Methods, Circuits, Heat Transfer, Gasdynamics, Aircraft Structures, Flight Vehicle Controls, Intro to Engineering Materials
- **Programming**: Experience with C++, MATLAB, and other basic coding software (Arduino, etc.)
- **Software Applications**: Project experience with SOLIDWORKS, Fluent, Simulink, OpenVSP, advanced knowledge of Word, PowerPoint, Excel, Publisher
- **Other applicable skills**: knowledge of cryogenic handling procedures and proper clean room etiquette, hands-on experience with various welding methods and effective interpersonal communication and teamwork skills

EXPERIENCE

Various Part Time Jobs, Columbus, OH

Laboratory Assistant (2016), Shift Lead (2017-2018), Landscaper (2019), Contractor Assistant (2020)

- I have held various part time jobs through my college career, each teaching me useful skills outside the classroom. I have received promotions and leadership roles for my work.

ACTIVITIES & INTERESTS

- Active member of the Buckeye Standup Comedy Club (BSCC), (August 2019 – Present)
- Completed Hobart Institute of Welding course: Welding for the Non-Welder (Dec 2017)
- Kent State Hackathon 2018, created and managed database for new social media app