BRANDON TASHI

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Aerospace Engineering student seeking an internship focusing on CAD and manufacturing**.** Advanced in Fusion 360. Intermediate in PTC Creo/Windchill, ANSYS, and SolidWorks. Decently experienced in drafting, programming, 3-D printing, mills, lathes, solders, workshop tools. and documentation. Trained GD&T and tolerance stack-ups knowledge. Proven teamwork from NASA, Department of Transportation, and cube-sat lead experience.

EDUCATION

Embry-Riddle Aeronautical University
Bachelor of Science in Aerospace Engineering Expected graduation: Dec 2025
GPA: 4.0/4.0
Related Coursework:

Thermodynamics	Spacecraft Systems	Graphical Communications
Solid Mechanics	Aerodynamics	Dynamics

WORK EXPERIENCE

NASA Marshall Space Flight Center 40 hours/week, Jan 2024 – May 2024
Propulsion Design Engineer (Intern)

- Designed/drafted parts using PTC Creo, GD&T, and Windchill for a CDR utilizing ASME standards.
- Minimized production costs by analyzing dimensions and materials with McMaster and PTC Creo.
- Applied 60 hours of GD&T + tolerance stack-up training in R&D work to ensure part functionality.
- Attended MARS Workshop club to train on mills, lathes, and other tools to manufacture a metal clamp.

NASA Goddard Space Flight Center (IV&V)
Yearlong Engineering Intern – Binary Analysis 23 hours/week, Sep 2021 – Aug 2022

- Programmed a Python pipeline by using Visual Studio, producing 99.9% sim data transmission fidelity.
- Designed/analyzed moon rocket simulation parts using Blender and Fusion 360, boosting fidelity by 85%.
- Enhanced project systems through SharePoint and Confluence, increasing data retrieval efficiency by 80%.
- Refactored C# code in moon rocket simulations via Microsoft Visual Studio, Unity, and Oracle VirtualBox.
- Built a modern, Bootstrap website using HTML, CSS, JavaScript, jQuery, Python, JSON, and TensorFlow.

Texas Department of Transportation
Summer Engineering Tech 40 hours/week**,** Jun 2021 – Aug 2021

- Performed 99.9% accurate verification of contractor scopes and work breakdown structures using Excel.
- Assisted in analysis and gathering of various Level of Effort sources through extensive research.
- Detected missing information and grammar issues via Microsoft Word and Excel with 99.9% accuracy.
- Aided in organizing file systems for different contractor projects ranging into millions of dollars in funding.

PROJECTS

Robotic Vacuum Cleaner Oct 2020 – Jan 2021

- Fabricated and assembled a 3-D printed robotic vacuum that was designed in Fusion 360 and PTC Creo.
- Constructed a modular chassis by using mechanical design principles like joints, clearance, and tolerance.
- Drafted robot assembly components onto drawing sheets with detailed and appropriate labeling.
- Simulated stress on assembly components using ANSYS and iterative design testing.

EXTRACURRICULAR ACTIVITIES

Embry-Riddle Orbital Research Association Aug 2020 – Sep 2021
Structures Sub-Team Lead for Project Hermes

- Researched potential structure designs and helped generate prototype satellite models using SolidWorks.
- Created an amiable, motivational, and relaxed teamwork atmosphere.