

Isaiah Bish

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PROFESSIONAL SUMMARY

Recent aerospace engineering graduate (B.S., Rocket Propulsion track, Dec 2025) with a CAD minor and CSWA certification. Experienced in propulsion design, turbomachinery analysis, and CAD/CFD/FEA workflows through advanced coursework and prototyping projects. Strong at translating analysis into practical, manufacturable hardware.

SKILLS

- 3D Modeling (CATIA, Solidworks, Inventor)
- MATLAB
- Ansys Workbench Software
- Computational Fluid Dynamics
- Statistical Analysis
- Design for Manufacturing
- Microsoft Office Suite
- Project Leadership
- Team Collaboration
- Time Management

CERTIFICATIONS

- SOLIDWORKS CAD Design Associate (CSWA)

PROJECT EXPERIENCE

Senior Design Project | Heavy-Lift Launch Vehicle

Lead Propulsion Analyst/ Designer – Rocket Propulsion Design

- Led the mechanical and propulsion analysis for a large launch vehicle, developing high-pressure fluid systems, rotating components, and structural elements within a complex engine architecture.
- Used engineering analysis tools (cycle modeling, CFD, FEA) to evaluate performance, validate designs, and ensure structural and thermal integrity of critical components.

Drone Bracket Design – Industry-Sponsored (Confidential Client)

Designer – 3D-CADD/Rapid Prototyping

- Designed and prototyped a modular 3D-printed drone bracket, optimizing rigidity, weight, and manufacturability for real-world aerospace use.
- Applied FEA to optimize structural performance and reduce vibration while evaluating material trade-offs and print parameters.
- Developed detailed CAD models and functional prototypes under NDA, gaining hands-on experience with design-for-manufacture and additive manufacturing workflows.

EDUCATION

B.S. in Aerospace Engineering

Embry-Riddle Aeronautical University

- Focus on Rocket Propulsion
- Minor in Computer Automated Design

Relevant Coursework: Rocket Propulsion Design, Jet & Space Propulsion, Aerodynamics, Aerospace Structures, Spacecraft Attitude Dynamics & Control, Rapid Prototyping, Thermodynamics.

PROFESSIONAL EXPERIENCE

Sheetz

Sept. 2019 – June 2024

Salesperson

- Worked to build relationships with customers and build potential for additional sales.
- Engaged with customers in social conversations to create pleasant and easy shopping experiences.