

Chase Bissell

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Objective

Detail-oriented aerospace engineering student at the University of Central Florida with strong foundations in design, analysis, problem-solving, leadership, and teamwork. Seeking internships to utilize academic skills and contribute to innovative engineering projects while developing my technical and practical skills through hands-on industry experience.

Academic Achievements & Extracurricular Activities

University of Central Florida | *Aerospace Engineering*

Fall 2025 – Ongoing

- **Expected Graduation:** Spring 2029
- **GPA:** 4.00
- **Campus Involvement:** Jet & Aeronautics Society (JAS), American Institute of Aeronautics and Astronautics (AIAA), SolidWorks Student Leadership Program (SSLP).

Projects

L1 Rocketry Rocket

Fall 2025 – Spring 2026

- Built a high-powered rocket independently to attain an apogee over 2,000 ft and be successfully recovered.
- Designed custom nose cone and fins in SolidWorks and utilized OpenRocket to optimize stability and airflow.

Thrust Vector Controlled Rocket

Spring 2026 – Ongoing

- Designed and assembled the rocket's electrical circuitry, including soldering and integration of sensors, microcontrollers, and servos.
- Developed a thrust-vector-control (TVC) gimbal system in SolidWorks and simulated the flight in OpenRocket
- Created the rocket's control software in C++ to process gyroscopic data and control servos for self-stabilizing.

Autonomous Underwater Vehicle

Spring 2026

- Collaborated within a four-person team to design a fully autonomous submersible, utilized Fusion 360 and SOLIDWORKS to model the hull for optimal fluid dynamics and internal component layouts to ensure fit.
- Engineered a dynamic buoyancy compensation system by integrating a dedicated vertical thrust motor, allowing the vessel to be capable of depth control while being stable through active hydrostatic adjustments.
- Programmed the vehicle's logic through Arduino (C++) to facilitate untethered mission execution, while managing electromechanical assembly including custom wire fabrication and waterproofing drivetrain shafts.

Leadership & Community Involvement

Rocketry Team Lead

Spring 2026 – Ongoing

- Led/organized a team working on high-power rocket design, construction, testing, and launch operations.
- Helped members develop skills in CAD using SolidWorks and taught OpenRocket to analyze stability of members designs.

Cross Country and Track & Field Team Captain

Fall 2023 – Spring 2025

- Served as a team captain, applying discipline, teamwork, and problem-solving to coordinate team practices.
- Developed workout schedules, resulting in achieving record-breaking performance at state-level competitions.

Achievements & Proficiencies

- **Certifications:** SOLIDWORKS CAD Design Professional (CSWP), SOLIDWORKS CAD Design Associate (CSWA), McCrawHill Excel, L1 Rocketry Certification
- **Software Skills:** Fusion 360, SolidWorks, Excel, Word, Office 365, Python & C++
- **Interpersonal Skills:** Leadership, Team Collaboration, Time Management & Organization