

EVAN FAVIS

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EDUCATION

University of Florida – Dual Aerospace and Mechanical Engineering: GPA: 3.86 – Dean's List August 2024 – Present

- Differential Equations 2, Calculus 3, Numerical Methods of Engineering Analysis, Dynamics, Thermodynamics, Mechanics of Materials, Materials, Physics with Calculus 2, Design Manufacturing Lab, Computer Aided Graphics and Design, Python, MatLab, Professional Communication for Engineers, Introduction to Aerospace Engineering

International Baccalaureate (IB) – Cumulative GPA (weighted): 4.779 – Salutatorian August 2020 – May 2024

CERTIFICATIONS AND SKILLS

- National Association of Rocketry Level 1 High Power Rocketry Certification (NAR ID: 125105)
- Fusion 360 and SOLIDWORKS CAD Design Associate (Perfect Score on CSWA Certification Exam) (ID: C-JNFQKVGDRH)
- Programming: Python, HTML, JavaScript developer (6+ years of experience) with Linux and Unix Command Line Experience
- Additive and Subtractive Manufacturing and Machining (Fused Deposition Model Printing, Lathe, Mill, Bandsaw), GD&T
- English (Native), Spanish (Fluent), Japanese (Intermediate)

CAMPUS INVOLVEMENT AND PROJECTS

National Association of Rocketry August 2025 – January 2026

- High Power Rocketry (L1 Certified): Engineered and launched a custom rocket to 2,270 ft apogee, validating OpenRocket simulations through a successful 36-inch parachute recovery

Swamp Launch Rocket Team – Quality Assurance & Testing, Structural Engineer, Outreach August 2024 – Present

- Optimized the CO2 ejection system, increasing reliability to near 100% efficacy through iterative mechanical refinement
- Coordinated cross-functional subteams to manufacture a high-strength carbon fiber airframe
- Experimentally found the coefficient of drag to confirm simulated results using resin 3D printer and air tunnels
- Communicate with all subteams to test components and experimentally find variables such as the coefficient of drag using model rockets. Test launches to record and evaluate data.
- Experimental Validation: Conducted wind tunnel testing using resin 3D-printed scale models to experimentally validate the coefficient of drag against simulation data; launched subscale rockets to validate progress

Competition R.O.V.E.R. – Additive manufacturing lead for excavation system for remote operations vehicle August 2025 – Present

Teaching Assistant at the University of Florida Mechanical and Aerospace Department January 2026 – Present

- Lead 40+ comprehensive tutoring sessions for EAS2011: Introduction to Flight and Orbital Mechanics
- Streamline complex aerospace concepts while fostering a collaborative and high-achieving inclusive learning environment

LEADERSHIP

Educational Engagement

- Conducted 5+ technical presentations and demonstrations at schools, tabling events, and interactive workshops using flight hardware and Microsoft Office suite to promote aerospace career paths

Mechanical Engineer Design Lead for ASME led R.O.V.E.R. additive manufacturing Competition July 2025 – Present

- Directed a 3-engineer team to develop a chain-bucket excavator; engineered high-torque drive systems utilizing rotational motors and linear actuators optimized for granular (sand) environments
- Iterative Prototyping: Executed 6 design iterations of the excavation arm, custom sprockets, and 90-degree miter gear systems using Fusion 360
- Additive Manufacturing: Integrated FDM 3D printing for rapid prototyping, specifically validating 3D-printed compliant mechanisms and integrated spring systems

Laboratory Operations Manager: Supervised weekly engineering workflows and facility access; optimized 3D printing queues and resource allocation to ensure 100% project uptime

Team Captain of HCHS Varsity Swim: Mentored a dual-gender team of 20+ athletes, coordinating meet logistics and technical training to secure advancements to County and District Finals August 2020 – May 2024

Memory Card Club Founder/President - Developed a centralized digital database for IB/AP curriculum, achieving a 100% exam pass rate for all active club members August 2022 – May 2024

IB Honor Council – Mediated disputes between students, teachers; National Honor Society Historian – Organized fundraising and speeches; Key Club Webmaster – Managed social media and programmed the school club website August 2020 – May 2024

MATH AND SCIENCE AWARDS:

Silver Garland Math Finalist, IB Math Achievement Award (perfect score 7), 2nd place in Polk Regional Science and Engineering Fair