

Samuel Crabbendam

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Education

University of Florida, Wertheim College of Engineering

May 2028

Bachelor of Science in Aerospace Engineering

GPA: 3.6

Relevant Coursework: *Design & Manufacturing Laboratory, Mechanics of Materials, Thermodynamics, Dynamics*

School Experience

Swamp Launch Rocketry | *Payload Mechanics, Flight Dynamics Sub-Teams*

Gainesville, FL | August 2024 – Present

Contributed to a multidisciplinary team project, responsibilities included:

- Designed the 2026 IREC aluminum composite CubeSat system housing two graduate research experiments.
- Designed and assembled the 2025 IREC aluminum and ABS chase camera deployment system.
- Simulated rocket designs and stability in varying wind conditions, resulting in a successful launch in the Spaceport America Cup.
- Facilitated experiments analyzing gene expression and protein response under launch G-forces.

American Institute of Aeronautics and Astronautics | *Social Director*

Gainesville, FL | May 2025 – Present

- Organized social gatherings and professional networking events, building collaboration within the UF AIAA chapter.
- Managed event logistics and communications with the executive board to enhance member engagement.

University of Florida Symphony Orchestra | *Violinist*

Gainesville, FL | January 2026 – Present

- Rehearsed and performed complex, time-critical orchestral works requiring precise coordination and disciplined preparation within a large system of 60+ musicians, drawing on 12 years of violin experience.

Work Experience

RecSports | *Member Services Associate*

Gainesville, FL | January 11, 2025 – Present

- Oversaw facility access, ensuring a safe and accessible gym environment for an average of 5,000 guests daily.
- Resolved member inquiries regarding membership and services, working independently to assist guests and provide excellent customer service.

Marshalls & HomeGoods | *Retail Sales Associate*

Winter Garden, FL | July 2022 – Present

- Managed transactions and answered customer inquiries at the busiest combo store in the country to ensure a seamless shopping experience while subscribing patrons to the TJX rewards program.

Certificates

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| • CSWA Certified, <i>SolidWorks</i> | Gainesville, FL Received 2025 |
| • Part 107 Remote Pilot License, <i>West Orange High School</i> | Winter Garden, FL Received 2023 |
| • Part 61 Private Pilot License, <i>Orlando Flight School</i> | Orlando, FL Received 2026 |
| • First Aid/CPR/AED Certified; Adult and Pediatric, <i>UF RecSports</i> | Gainesville, FL Received 2025 |

Skills

- Proficiency in MATLAB, Fusion360, RasAeroII, OpenRocket, Zoom, Microsoft Office, Slack, Github