

# Samuel Crabbendam

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## Education

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**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

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**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

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

## Skills

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