

Jacob J Menssen

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JJMenssen.com

Hard working aerospace engineering student with a specialty in leadership and team environments. Passionate about math and its real-world applications. Seeks challenges with unmatched ambition.

EDUCATION

Georgia Institute of Technology (GT), Atlanta, GA Bachelors – May 2026
BS/MS Honors Aerospace Engineering Masters – May 2027
GPA: 3.67
College of Engineering Dean's Scholarship

RELEVANT COURSEWORK

Spaceflight Dynamics, Spaceflight Operations, C++, Aerothermodynamics, Aerospace Vehicle Performance, Control Systems, Jet & Rocket Propulsion, System Dynamics, MATLAB, SolidWorks, Circuits & Electronics.

ENGINEERING EXPERIENCE

Undergraduate Researcher, Space Systems Design Lab, Atlanta GA May 2025 – present

- Conducting independent space systems research focused on spaceflight. Utilizes numerical methods and various programming languages to apply physics models of gravitational forces and hypersonic aerodynamic forces.
- Analyzes spaceflight trajectories and orbit maneuvers using simulation framework built from scratch.

Spacecraft Operator, Space Systems Design Lab, Atlanta GA August 2025 – present

- Preparing to operate Georgia Tech's OrCa-2 Spacecraft launching early Spring.
- Trained to process TLEs, propagate orbits, generate sky plots, and identify viable passes for downlink/uplink.

Aircraft Maintenance Technician, Broadwell Aircraft, Woodstock GA February 2025 – present

- Restores and maintains vintage airplanes. Installs avionics, transports and assembles airplanes, and solves problems associated with the challenges of aging aircraft.
- Designs and fabricates custom components using SolidWorks and manufacturing techniques such as waterjets, hand tools, and 3D printers. Reads through documentation to ensure compliance with FAA standards.

National Member, AIAA, Atlanta GA August 2022 – present

- Active member of AIAA. Engages with research, guest lecturers, and competitive events.
- Winner of nTop Hackathon.
- Second place winner of Lockheed Martin Case Study.

System Engineer, Georgia Tech Supersonics Club, Atlanta GA September 2023 – January 2025

- Founding cohort of a team creating the first ever <50kg fixed-wing supersonic aircraft of its kind.
- Participated in vehicle performance discussions, systems level planning, and subsystem integration.
- Designed internal housing components for electronics to be mounted. Developed manufacturing protocol for windshield.

LEADERSHIP EXPERIENCE

Two Time Speaker, Tedx Georgia Tech, Atlanta, GA August 2024 – November 2025

- Communicated technical topics to a crowd of students and faculty twice.
- Practiced ability to prepare presentations and deliver them confidently and effectively.

Social Chair & Rush Chair, Tau Kappa Epsilon Fraternity, Atlanta, GA April 2024 – April 2025

- Planned social events with 1000+ attendees. Practiced leadership through project management and group representation.
- Managed a seven-figure budget to host multiple events every week for social and recruitment purposes. Consistently stayed under budget through intentional financial decisions and responsible accounting.
- Raised membership by over 100% during time on executive board; Was awarded "Top TKE" by national chapter.

Event Lead, Hightop Hospitality Catering, St Paul, MN April 2022 – January 2024

- Maintained team organization while serving 200+ guests simultaneously by properly balancing and responding to the many demands of events.