

Olivia Thompson

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EDUCATION

Massachusetts Institute of Technology

Bachelor of Science in Aerospace Engineering

Relevant Coursework: Aerodynamics, Propulsion Systems, Flight Mechanics, Orbital Dynamics, Composite Materials, Control Systems

GPA: 3.92/4.0

Cambridge, MA

Aug 2023 – May 2027

TECHNICAL SKILLS

Software: MATLAB, ANSYS, SolidWorks, Python, LabVIEW, STK

Tools: CFD, FEA, Wind Tunnel Testing, CAD/CAM, Composite Manufacturing

PROJECTS

[CubeSat Design and Development](#) | *MATLAB, STK*

- Led team of 5 in designing 3U CubeSat for atmospheric research
- Developed orbital mechanics simulation models
- Achieved 95% power efficiency in solar panel design

[Autonomous Drone Swarm](#) | *Python, ROS*

- Created control algorithms for multi-drone coordination
- Implemented collision avoidance using computer vision
- Demonstrated successful formation flying with 6 drones

[Hypersonic Vehicle Design](#) | *ANSYS, SolidWorks*

- Designed thermal protection system for hypersonic flight
- Conducted CFD analysis of supersonic flow patterns
- Optimized design for minimal drag coefficient

RESEARCH EXPERIENCE

Research Assistant - Space Systems Lab

MIT

Oct 2023 – Present

Cambridge, MA

- Developing novel propulsion systems for small satellites
- Conducting vacuum chamber tests of ion thrusters
- Published research in Journal of Spacecraft and Rockets

WORK EXPERIENCE

Aerospace Engineering Intern

SpaceX

Jun 2023 – Aug 2023

Hawthorne, CA

- Assisted in Starship heat shield design and testing
- Developed simulation models for reentry trajectories
- Optimized landing burn sequences for fuel efficiency

Systems Engineering Intern

NASA Jet Propulsion Laboratory

May 2022 – Aug 2022

Pasadena, CA

- Contributed to Mars Sample Return mission planning
- Performed trajectory optimization calculations
- Developed test procedures for spacecraft components