

# Benjamin Lammers

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## EDUCATION

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Bachelor of Science

Double Major in Aerospace Engineering, Electrical Engineering & Computer Science

Cambridge, MA

September 2022 - May 2026

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## LEADERSHIP EXPERIENCE

### MIT ROCKET TEAM

Executive Board, Social Chair

Cambridge, MA

January 2023 - Present

- Led recruitment effort for incoming freshmen, designing videos, posters, and social media content, resulting in ~50 new members joining the team this fall.
- Designed and machined multiple flight-tested components for our 2023 Phoenix launch.
- Worked with a team to assemble structural components and firing mechanisms on launch day.

### MIT MOCK TRIAL

Treasurer, Fall Captain

Cambridge, MA

September 2022 - Present

- Led 12-member team to two invitational tournaments at Yale and Boston College.
- Competed as both an attorney and witness, delivering cross examinations and statements.

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## WORK EXPERIENCE

### CALESTOUS JUMA LEGACY FOUNDATION

MIT International Science and Technology Intern

Port Victoria, Kenya

May 2023 - August 2023

- Identified needs of a community in rural Kenya, developing documentation for future interns.
- Developed and executed a 7-week curriculum, teaching computer science and Python to HS graduates.
- Deployed a locally-served digital library, giving students access to learning resources without internet.

### TECUMSEH CENTER FOR THE ARTS

Lighting and Sound Technician

Tecumseh, MI

February 2021 - August 2022

- Mixed audio from 30+ microphones and music as lead sound engineer for live theater shows.
- Worked with equipment dealers to negotiate pricing and solicit equipment donations.
- Designed and deployed a live-streaming system, generating DVD and livestream sales.

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## PROJECTS

- **ClimaSat** - Teamlead - Led a 5-person team to design a satellite constellation proposed to NASA CSLI to collect data on atmospheric CO<sub>2</sub> and VOC levels. Implemented the Iridium network to avoid using a ground station altogether, and created a method of interlocking smaller satellites that formed CubeSats, reducing launch costs.
- **2023 Momentum Competition** - Team member - Worked with 4-person team to develop a preliminary design for a deceleration mechanism for the NASA Goddard SCOPE mission. Built a low-fidelity prototype and presented our novel design to industry judges, placing 1st out of 6 teams.

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## ACTIVITIES

- **MIT Judboard:** Member of the "Supreme Court" of MIT, resolving disputes in the Undergraduate Association government by hearing cases, questioning sides, and making a final decision with my 6 fellow judges.
- **MIT Festival Jazz Ensemble:** Performed trumpet alongside Grammy-nominated musicians at MIT, also traveled to the Amazon Rainforest for a musical, scientific, and cultural exchange.

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## CAPABILITIES

**Skills:** Mill, Lathe, Waterjet, Python, SOLIDWORKS, Inventor, Adobe Suite, Microsoft Office

**Coursework:** Unified Engineering (Materials & Structures, Signals & Systems), Dynamical System Modeling and Control Design, Linear Algebra, Differential Equations, Computational Science and Engineering, Algorithms