Evan Bloom

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US Citizen

EDUCATION

Georgia Institute of Technology **Atlanta, GA**
Bachelor of Science in Aerospace Engineering *Aug. 2018 - Dec. 2021(Expected)*

- GPA: 3.82
- BS/MS Honors Program
- Georgia Tech Lorraine Study Abroad Program: Metz, France (Summer 2019)
- Coursework: Rocket Propulsion (Graduate-level), Aerodynamics, Structural Analysis, Control Systems

WORK EXPERIENCE

SpaceX **Hawthorne, CA**
Vehicle Engineering Intern - Dragon Propulsion *Aug. 2020 - Dec. 2020*

- Led multiple critical-path test campaigns to evaluate flight feed system performance limits
  - Programed tank pressurization safety assurances into flight software
  - Developed rationale to address risk of slug clearing effectiveness
  - Used MATLAB to analyze data in order to resolve test campaign anomalies
- Developed and tested vehicle recovery system used to extract hypergol vapors from the Dragon capsule
- Qualified fluid test system for accurate pressure regulator reuse health measurements
- Utilized Python to create automated data analysis tools used for flight data review and ground support

PROJECTS

Senior Design Capstone **Atlanta, GA**
Project Manager *Jan. 2021 - Present*

- Handpicked by faculty to serve as project manager to form and lead team throughout semester
- Successfully facilitated communication throughout the team and stakeholders
- Adapted to dynamic timelines and delegated work to the team based on defined responsibilities
- Researched and analyzed various mission and spacecraft architectures to layout design concept

High-Power Electric Propulsion Laboratory **Atlanta, GA**
Undergraduate Research Assistant *Jan. 2020 - Present*

- Machined parts for and fired the P5 Hall-effect thruster
- Wired and calibrated transducer and DAQ system used for vacuum pressure and propellant flow rate control
- Improved vacuum chamber beam dump conductivity in order to improve cooling

Yellow Jacket Space Program **Atlanta, GA**
Propulsion Team Member *Aug. 2019 - Present*

- Worked in an interdisciplinary team of students to research and develop a GOX/Jet-A spark torch igniter
- Used SolidWorks and Microsoft Excel to design the injector and combustion chamber geometry
- Utilized MATLAB to model the transient heat transfer through the walls of the combustion chamber to determine the minimum thickness required for safe operation

SKILLS/INTERESTS

Awards: Eagle Scout, Faculty Honors, Dean's List
Software: MATLAB, SolidWorks, NX/Teamcenter, Excel, Python, Microsoft Visio
Languages: English - Fluent, French - Conversational
Interests: Rocket Propulsion, Astrophysics, Aerodynamics, Playing Music, Backpacking, Learning, Travel