Hirsh Kabaria

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# STATEMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Proven student leader interested in using engineering and business leadership skills to better the aerospace industry through policy action. Interested in science and defense focused roles at a related congressional committee or federal agency during summer 2023.

# EDUCATION­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **­­****University of Michigan** | **May 2024** |
| Aerospace Engineering, Bachelor of Science in Engineering | Ann Arbor, MI |

Computer Science, Minor

3.6 / 4.0 GPA

Notable Classes: Fund. of Product Development (MBSE), Global Narratives of Trauma, Principles of Microeconomics, Intro to the Aerospace Enterprise, Spacecraft Dynamics, Aerodynamics, Adv. Structures, Data Structures and Algorithms, Aerospace Computing

Honors and Memberships: ΣΓΤ Aerospace Honors Society (Fundraising Lead ’22-’23), Dean’s List (Winter ’20), AIAA, YDSA

# SKILLS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Administration:** Project Management, Business and Government Relations, Team Leadership, Model Based Systems Engineering

**Communication:** Marketing,Brand Management, Merchandise Procurement, Graphic Design, Social Media Campaigning

**Computer:** Adobe CC (Lightroom Classic, Photoshop, Premiere, Illustrator), MS Office Master Certification, C++, Java, Ubuntu

**Engineering:** Mechanical Design and Analysis, Grant-Writing, Risk Mitigation, Requirements Definition, Machining, Simulation

**Languages Spoken:** Spanish (Working Proficiency), Gujarati (Spoken), English (Fluent)

# EXPERIENCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Summer Communications Assistant** | **Summer 22** |
| University of Michigan Department of Aerospace Engineering | Ann Arbor, MI |

* Raised community awareness and built community relations through a new ethos accompanied with refreshed graphics, giveaway merchandise, and social media campaigns to best present Michigan Aerospace and share our values with current and future followers.

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| **Business Division Lead** | **Spring 21 – Spring 22** |
| Michigan Aeronautical Science Association (MASA) Rocket Team | Ann Arbor, MI |

* Led a team of 5 to manage over $100,000 in funding, design team merchandise, and oversee public relations.
* Raised $28,000+ in NASA and UMich grants, corporate sponsorships, and crowdfunding.
* Responsible for 600% growth of the team’s Twitter, Facebook, and LinkedIn pages through engaging visual content.
* Collaborated with NASA, airport, and local authorities to find a suitable liquid engine test site.
* Participated as a panelist at AIAA SciTech 2022 discussing student rocketry and the creation of the Academic Rocket Launch Alliance.

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| **Aerodynamics and Recovery Systems Engineer** | **Fall 20 – Present** |
| Michigan Aeronautical Science Association (MASA) Rocket Team | Ann Arbor, MI |

* Determined design requirements and coordinated deadlines, funding, and design reviews between the nosecone, recovery, and airframe teams to facilitate nosecone attachment and separation as part of our recovery sequence.
* Made multiple couplers and airframes, delivering flight components ahead of schedule despite restructure due to equipment failures.
* Conducted full recovery system testing and integration with deployment, including redesign of pyrotechnic bolt.
* Lead design of a rotating wind tunnel test stand for rocket fins, from whiteboard of requirements through design, procurement, and reviews.
* Simulated loads using industry software on multiple variations of the nosecone-airframe interface of our previous spaceshot rocket.

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| **Staff Photographer** | **Fall 20 – Summer 22** |
| Michiganensian Yearbook | Ann Arbor, MI |

* Photographed campus life, events, and portraits for the 125th, 126th, and 127th editions of the University of Michigan official yearbook.
* Captured the action of Michigan Athletics, from football at the Big House to field hockey, gymnastics, and rowing.
* Notable Assignments: GEO Strike, Glass Animals, YDSA Fight for $15 Kickoff, 2020 Comeback Commencement (with Dr. Anthony Fauci)

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| **Leadership Council Member** | **Spring 18 – Fall 19** |
| Tampa Mayor’s Youth Corps | Tampa, FL |

* Organized a panel of local experts in addiction and substance abuse for a student-led advocacy group.
* Fought for the interests and concerns of Tampa’s youth in monthly meetings with Mayors Buckhorn and Castor.
* Produced video, graphical, and still image content for Youth Council and City of Tampa social media pages.
* Represented the City of Tampa at the National League of Cities City Summit in Los Angeles and Florida League of Cities Annual Conference.