Hirsh Kabaria

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# 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 Global Narratives of Trauma, Principles of Microeconomics, Intro to the Aerospace Enterprise, Model Based Systems Engineering, 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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.