**Hirsh Kabaria**

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# Education

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| **University of Michigan (Ann Arbor, MI)** | May 2024 |

Bachelor of Science in Engineering in Aerospace Engineering

Minor in Computer Science

GPA: 3.6

# Experience

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| **Michiganensian Yearbook** | August 2020 – Present |

Staff Photographer

* Photographing campus athletics, life, and events, as well as stock photos and portraits for the official yearbook of the University of Michigan, now in its 126th edition

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| **Michigan Aeronautical Science Association (MASA)** | August 2020 – Present |

Business Lead (2021-Present):

* Managing over $100,000 in funding, with experience in grants, sponsorships, and crowdfunding
* Forming and maintaining relationships with key sponsors
* >600% growth in social media reach on Instagram and Twitter
* Worked with local airports to find a permanent test site for long duration, high impulse testing.
* Overseeing the design and sourcing of merchandise for a team of 200+ people

Tangerine Space Machine: MASA’s Liquid Fueled Spaceshot

* Fin Can Test Stand Lead: Led a team of 3 building an interface between fin assembly and wind tunnel to measure spin rates at 150 mph.
* Separation Mechanism: Worked to simulate and reduce yielding due to bending moment.
* GSE E-Box: Worked on internal placement of boards, lighting, and power while maintaining waterproofing.
* Worked on 2 PDRs and 1 CDR for these projects.

Projects

* Drone Simulation: Worked with a team of 4 to simulate a drone delivery system in a custom simulation environment.
  + Designed a mock factory floor in SOLIDWORKS and imported it into the simulation software.
* FED Solver: Implemented a Finite Element Difference Solver in MATLAB to simulate heat flow in a rod using PDEs.
* Neural Network: Used the Monte Carlo method of flipping neurons to create a network trained on letters in MATLAB.

Skills

* SOLIDWORKS for CAD
* Ansys Mechanical
* Photography
  + Portfolio at <https://www.flickr.com/people/hirsh_kabaria/>
* Programming (C++, Java, MATLAB)
  + GitHub: <https://github.com/Medajor>
* Adobe CC (Lightroom Classic, Photoshop, Premiere, Illustrator, InDesign)
* MS Office (Master Certified)