

# Matthew Villavicencio

He/him/his  
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## EDUCATION

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### University of Michigan

Ann Arbor, MI

Bachelor of Science in Aerospace Engineering, Minor in Computer Science,  
Minor in Mathematics

*Expected December 2024*

- **GPA:** 3.92
- **Relevant Coursework:**
  - *Computer Science:* Programming and Data Structures + Algorithms, Machine Learning
  - *Aerospace:* Introduction to Gas Dynamics, Structures + Mechanics, Aerospace Computing
  - *Mathematics:* Linear Algebra, Numerical Methods
- **Honors/Awards:** University Honors and Dean's List – 4 terms (GPA higher than 3.5), William J. Branstrom Freshman Prize (top 5% of freshman – Fall 2021)

## RELEVANT EXPERIENCE

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### Michigan Aeronautical Space Association (MASA)

*Nosecone Development Team*

*September 2021 – April 2022*

- Learned about the structural components of a rocket and their importance in stability and aerodynamics
- Explored different shapes of nosecones and compared their geometric constraints and aerodynamic performances within decision matrices to determine a final shape
- Created CAD models in Siemens NX of the nosecone in order to obtain design figures and weight estimates as well as subsequent molds for use in fabrication
- Coordinated in CAD projects with the Aerodynamics sub team over Siemens Teamcenter

### AHS Engineering Club

*Vice President*

*September 2020 – April 2021*

- Organized engineering-related activities and events for students to virtually participate in
- Modeled various personal projects for the club with Autodesk Inventor
- Participated in a CAD Modeling project with a sub team for the annual MITES Competition (Michigan Industrial Technology Education Society)

## WORK EXPERIENCE

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### Great Lakes Taco Bell

*Crew Member*

*June 2023 – Present*

- Worked efficiently with co-workers while reducing customer wait times for food orders and maintaining a high standard of customer satisfaction
- Maintained cleanliness and organization of customer and food preparation areas
- Operated large-volume cooking equipment such as deep fryers, grills, and steamers according to manufacturer instructions and with caution

## SKILLS

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- 5+ years of experience with CAD (Autodesk Inventor, NX)
- Experience with C++, Python, MATLAB, Microsoft Products Suite (Word, Powerpoint, Excel)
- Several projects in C++, Python, and Blender from curricular and extracurricular activities
  - Data Organization + Optimization, Sorting Algorithms, Photo Processing, 3D Modeling
- Attention to detail, communicative, and willing to learn