

# Rushyendranath Reddy Nalamalapu

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## EDUCATION

### Georgia Institute of Technology (Georgia Tech)

*Bachelor of Science in Aerospace Engineering*

- Dean's List Academic Scholar Recognition + Grand Challenges Living Learning Community

**Atlanta, GA**  
Aug 2024 - Present  
G.P.A. 4.00 /4.00

### Mississippi School for Mathematics and Science (MSMS)

*High School Diploma*

- High School Diploma with Highest G.P.A. Award at **#1 School in Mississippi**
- Dual Credit Enrollment at Mississippi State University + Mississippi University for Women

**Columbus, MS**  
Aug 2022 – May 2024  
G.P.A. 4.00/4.00  
G.P.A. 4.00/4.00

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## RESEARCH EXPERIENCE\*

### Georgia Institute of Technology (Georgia Tech)

*Undergraduate Research Apprenticeship (Aerospace Systems Design Laboratory | ASDL)*

- Professional Engineer Systems Modeling research + training using SysML language

**Atlanta, GA**  
Jan 2025 – Present

*Undergraduate Research Apprenticeship (Vertically Integrated Projects Program | VIP Program)*

- Exascale Computational Fluid Dynamics Modeling: Python Parallel Programming + Machine Learning

Jan 2025 – Present

### University of Mississippi | Department of Physics (OleMiss)

*Elementary Particle Physics Research*

- Monte Carlo Simulations, Terminal, Python, Jupyter Notebook, ROOT for Belle II Positron/Electron Annihilator

**University, MS**  
Jun 2023 – Jul 2023

### Mississippi School for Mathematics and Science (MSMS)

*Independent Student Research*

- Computational Fluid Dynamics, Computer Aided-Design on novel reusable rocketry structures
- Finalist to Regeneron ISEF, NJSHS (\$2,000 Scholarship)
- Research Paper + Editor for MSMS Science Research Journal

**Columbus, MS**  
Aug 2022 – May 2024  
(2022, 2023 & 2024)  
(2023 & 2024)

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## WORK EXPERIENCE

### Georgia Institute of Technology | Yellow Jacket Space Program (Georgia Tech | YJSP)

*Propulsion and Testing Engineer*

- Vespula Liquid Rocket Team, Propulsion Sub team, Vehicle Fluids System Division

**Atlanta, GA**  
Aug 2024 - Present

### Mississippi State University | Delta Research Extension Center (MSU | DREC)

*Research Economist Summer Intern*

- U.S. Census of Aquaculture Data Analytics, contributions to Research Paper, Economic Trend Modeling

**Stoneville, MS**  
Jun 2024 – Jul 2024

### Mississippi University for Women | Mississippi Governor's School (MUW | MGS)

*Resident Assistant in Training*

- Leadership, Communication, Organization, Event Logistics Planning, Manual Labor

**Columbus, MS**  
May 2024 – Jun 2024

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## HONORS + AWARDS†

- Georgia Institute of Technology Dean's List Scholar Recognition 2025
- Regeneron International Science and Engineering Fair Finalist 2022, 2023 & 2024
- N.A.S.A. Moon Pod Proposal National Semifinalist 2021
- Department of Defense National Junior Science and Humanities Symposium Finalist 2024
- Yale Science & Engineering Association STEM Award 2023 & 2024
- Eagle Scout of America 2022

\*References available upon request

†Documentation and certificates available through QR Code