ROHIT TUTEJA

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OBJECTIVE

To gain experience in the topics and projects where computer science models the real world, and using these models to help development of new technologies.

EDUCATION

Georgia Institute of Technology — Expected class of 2024

Computer Science B.S. - Modeling/Simulation and Intelligence — 3.53 G.P.A.

Minor in Physics

SKILLS

Programming Languages:

Proficient: Java; **Intermediate:** Javascript, HTML, CSS, MatLAB; **Beginner:** Python, C

Development/Tools:

Proficient: WSL, Git; **Intermediate:** RASAero II, Bash, CircuitSim; **Beginner:** SolidWorks

Relevant Classes:

- Object Oriented Programming, Data Structures/Algorithms, Computer Organization/Programming
- Intro to Mechanics, Intro to Electricity/Magnetism

PROJECTS AND ACTIVITIES

Yellow Jacket Space Program — Fall 2021 onwards - Flight Dynamics Team

- Aerodynamics/Stability Subteam Member
- Responsible for ensuring static and dynamic stability for the club's subscale rocket
- Using RASAero II and an in-house MatLAB trajectory simulator with 6 degrees of freedom to determine most effective fin size based on desired static margins
- Performed a mass to fin size analysis to determine how much a change in mass would affect fin size to allow Structures team to know how accurately they need to weigh the craft
- Aided Launch Structures on Electrical Equipment box design in SolidWorks

Hateful AI — Summer 2021 - Co-Creator

- A Personal Assistant That Doesn't Like You - Hosted on GitHub
- Co-developed a basic web-based personal assistant using JavaScript, stylized with CSS
- Implemented OpenWeatherMap and WebSpeech APIs to provide speech recognition/synthesis along with weather information
- Worked with a partner to manage versions and coordinate who implemented which feature

Yellow Jacket Flight Club — Fall 2021 onwards - Club Member

- Student Pilot
- Learning how to operate and maintain general aviation aircraft
- Gaining basic applicable knowledge on aerodynamics and stability as it relates to aircraft
- Working towards a Private Pilot License (July 2021 onwards)

Metea Valley High School Robotics — Fall 2018 to Spring 2020 - Team 8995M

- Build Team
- Helped build robots for the VEX Robotics 2018-19 and 2019-20 Competition seasons, qualifying for State, National, and International level competitions both seasons