

# Mahatru Miryala

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[LinkedIn](#)

[GitHub](#)

## EDUCATION

**Georgia Institute of Technology: Atlanta, GA**

4.0 GPA, Honors Program, Class of 2025

Biomedical Engineering, Computer Science

**Suncoast Community High School: Riviera Beach FL**

Honor roll - 9, 10, 11, 12

## EXPERIENCE

**Undergraduate Research Assistant - Dr. Joon-Hyuk Park (02/22 - 08/22) - 10 Hrs/Wk**

- Utilizing Python to contribute in researching object recognition, hand tracking in 3D space, and LiDAR-based indoor navigation to aid people with disabilities in navigating their environment
- Convolutional Neural Networks and Hidden Markov Models in gesture-to-sound conversion

## PROJECTS

**[NASA L'SPACE Mission Concept Academy](#)**

**(01/22 - 04/22) - 10 Hrs/Wk**

- Worked with NASA engineers in a workforce development program, the goal was to design logistics and science for a lunar mission to identify Oxygen deposits for future moon bases
- Serving as the Astrobiologist on the Science sub-team, developed and presented a 78 page Preliminary Design Review

**[Trash Trek Challenge](#)**

**2015-16**

- Led the programming and project teams to win an FLL competition, presenting our solution to clean orbital debris and completing tasks on a board with our Lego robot
- Presented the project to scientists at JPL for review and approval

**[IB Calculus IA](#)**

**2019**

- Calculated escape velocity, gravitational transfers, and other variables using calculus required for a trip to Mars using a Saturn V rocket

**[IB Extended Essay](#)**

**2020**

- Learned Python and built and tested a neural network to predict COVID cases and deaths on a regional basis

**[Sea The Future](#)**

**2020**

- Submitted an augmented reality app utilizing C++, OOPS, and APIs in Unreal Engine 4 for the Congressional App Challenge

## EXTRACURRICULAR ACTIVITIES & LEADERSHIP

(HS) Boy Scouts - Eagle Scout, Historian, Webmaster, Assistant Patrol Leader

(HS) Tae Kwon Do - Instructor

(HS) Computer Club - Social Media Director

(HS) Post57 - Vice President of Administration

(HS) Machine Learning Club - Co-Vice President

2021-22 AIAA - Aerospace Society Member, various workshops and competitions

2021-22 Knight Hacks - CS Club Member, Hackathon 2021 Competitor