

Mahatru Miryala

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[LinkedIn](#)

[GitHub](#)

EDUCATION

University of Central Florida: Orlando FL

Computer Science, Class of 2025 - Dean's List

Burnett Honors College

Suncoast Community High School: Riviera Beach FL

Honor roll - 9, 10, 11, 12

EXPERIENCE

Undergraduate Research Assistant - Dr. Joon-Hyuk Park (02/08/22 - Present) - 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 PDR

[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 - member, various workshops and competitions

2021-22 Knight Hacks - member, Hackathon 2021 Competitor

VOLUNTEERING EXPERIENCE

Cole Preston Foundation (Growing plants at a local garden to donate to homeless shelters, helped make and manage the website)

Boy Scouts Activities (Various volunteering opportunities)