

# 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

**NASA L'SPACE Academy (01/07/22 - Present) - 10 Hrs/Wk**

- Working with NASA engineers in a workforce development program, my team's mission is to design the logistics and science for a rover mission to the Moon to identify Oxygen deposits
- Serving as the Astrobiologist on the Science sub-team

## PROJECTS

### Trash Trek Challenge

- 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

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

### IB Extended Essay

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

### Sea The Future

- 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

AIAA - member, various workshops and competitions

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)