

EDUCATION

University of Maryland , A. James Clark School of Engineering College Park, MD
BS, Aerospace Engineering (Cumulative GPA: 3.57) Expected May 2026

Howard County Community College Columbia, MD
(CMSY-172 Intro to JavaScript, 3 Credit hours Completed, 4.00 GPA) Aug. 2019

HONORS

University of Maryland Scholars
UMD Dean's List 2023

RELEVANT WORK EXPERIENCE

UMD Aerospace Engineering Research Project College Park, MD
Project Member Sep. 2022 - pres.

- Worked in a group led by Keystone Professor Christopher Cadou to investigate the functionality of pulse jet engines, specifically the Lenoir cycle, Acoustic Resonance Theory and Kadency effect on a basic level
- Conducting live pulse jet engine runs and collected data on the thrust, fuel consumption, and other data
- Researching existing scientific literature on thrust, fuel consumption and functionalities of other engines in contrast to pulse jet engines

North American Wave Engine Corporation Baltimore, MD
Intern Jun. 2023 - Aug. 2023

- CNC machined and programmed on Solidworks CAM to manufacture aircraft engine mounts
- Coded preliminary C++ code for engine fuel injector systems and wired them via soldering
- Investigated ARDUINO sensors and C++ related code to build an differential pressure airspeed sensor
- Constructed a heat and soundproof a Testing Room from scratch to observe and run test engine runs

UMD Material Identification OTV Engineering Project College Park, MD
Team Leader Jan. 2022 - Apr. 2022

- Collaborated with and led a group of 8 students to design, build, program , and test an autonomous vehicle to navigate through terrain to objective points on a budget of \$350 in 3 months
- Utilized Fusion360 to 3D design and 3D print parts for the OTV and Arduino IDE to code the microcontroller that controlled the OTV actuators

SKILLS

Application: Matlab, C++, Java, Excel, Powerpoint, Javascript, CNC Machining, AutoCAD
Languages: English (Fluent) , Telugu (Fluent)

LEADERSHIP

SiliconAndhra Manabadi Ellicott City, MD
Student/Student Teacher Aug. 2016 - Aug 2021

- Assisted teachers with a classroom of 10-20 diverse student group on how to read, write, and speak Telugu every weekend
- Earned 16 international credits from a certified Telugu language certification course at distinction level from Poti Sreeramulu Telugu University