

Saiarun Jayanthi

University of Maryland College Park, Class of Fall 2026

CONTACT

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[Portfolio Site](#)

EDUCATION

Fall 2023 - Fall 2026

B.S. Computer Science

Robotics and Autonomous
Systems Minor

COURSEWORK

Computer Science:
CMSC451, CMSC430,
CMSC426, CMSC422,
CMSC398R, CMSC320

Mathematics: MATH461,
STAT400, MATH246,
MATH241, MATH206

RAS Minor: ENEE467,
ENME467, ENME480,
ENAE450

SKILLS

Languages: Python,
Arduino, C++, Java, Unity
C#, x86 Assembly

Platforms: ROS2, VS Code,
Git, Onshape, MATLAB

WORK EXPERIENCE & UNIVERSITY RESEARCH

TRX Systems, Software Engineering Intern (Summer 2025)

- Developed sensing and control platforms at the TRX IR&D Division
- Primary objective was in using Event-Based Sensing for pose correction/estimation, developed several algorithms and testbenches that were validated in field testing
- Advised company on broader challenge of cost-effective, emission-free sensing and correction in vehicles

Condor-Inspired Winged Robot for Aerial Monitoring (Fall 2024)

- Developed a gliding drone platform for minimally disruptive and energy efficient surveillance of the Chesapeake Bay land fauna
- Platform was semi-autonomous, constructed from mylar and carbon fiber, and used a downward-mounted PiCowbell camera

RoboRaptor: Articulated Wing Glider for Analysis of Winged Drones in Aerial Settings (Summer 2024)

- Developed a robotic flapping drone system with segmented wings for analysis of atmospheric behavior and wind on flapping robots
- Platform designed to research various wing aspect ratios and flapping patterns, testing with remote control and IMU + altimeter setup

TECHNICAL PROFILE & PROJECTS

Robotics at Maryland (RAM)

- Computer Vision Lead of Testudog, autonomous quadruped robot competing in IEEE ICRA, developing sensing and control components
- Work with Nvidia Jetson Orin, Oak Stereo Camera, LiDar, and other robotic platforms to build perception and localization capabilities
- Software Team for Qubo, UMD Robosub project (2023 - 2024)

Miscellaneous Projects

- Participating in UMD Cybersecurity Club seminars and challenges
- Simulation, modelling, and design for various personal undertakings, from robotic control to 3D-printed desk accessories
- [Adapted Ride-On-Truck](#) project for a preschooler with special needs
- Video game development and video game mods
- First Robotics Competition Alum and Volunteer