

Pradyun Bachu

UNDERGRADUATE STUDENT

6 Eddie Ct, Dayton, NJ 08810

☎ 732-690-8856 | ✉ pradyun.bachu@gmail.com | 📷 pradyunbachu | 🌐 pradyun-bachu

Work Experience

Wisconsin Autonomous

INFRASTRUCTURE AND OPERATIONS TEAM

Madison, WI

October 2024 - Present

- Learning about how to improve the infrastructure of an autonomous vehicle competing in AutoDrive Challenge II
- Helping coordinating project management, marketing, finance, and outreach of Wisconsin Autonomous
- Working on server localization using ROS, CAN, and Novatel IMU/GPS

PeddieHacks, Peddie Computer Science Club

EVENT DAY JUDGE, LOGISTICS TEAM LEADER, FINANCE AND MARKETING TEAM

Hightstown, NJ

2021 - Present

- Co-led a team of 35+ Peddie students for PeddieHacks, a 48-hour online hackathon hosted by the Peddie School in Hightstown, New Jersey. It is open to all high school and college undergraduate students
- In charge of connecting with judges, workshop speakers, and sponsors to ultimately have a smooth event day with the necessary funding for the entire event
- 2024: Participated on the panel of judges for the event. Pre-screened and live-judged 30+ projects
- 2023: 183,678 USD in prizes, 279 participants 2022: 132,383 USD in prizes, 204 participants 2021: 50,000 USD in prizes, 342 participants

FIRST Team - FRC 5895, Peddie Robotics

SENIOR ENGINEER AND SCOUT

Hightstown, NJ

2021 - 2024

- Used CAD and CAM software (Autodesk Inventor, Onshape, vCarve Pro) to design and machine a robot to compete in multiple FIRST competitions.
- Mentored underclassmen in both engineering/design as well as scouting match data
- FIRST World Championship Milstein Division Winner (2023), FIRST World Championship Hopper Division Finalist (2024), FIRST World Championship Roebling Division Quality Award (2022), 3x FIRST Mid-Atlantic Championship Winner, 6x FIRST Mid-Atlantic District Event Winner

Undergraduate Researcher

AI ENGINEER

Remote

June 2023 - July 2023

- Worked under Matthew Radzihovsky (MIT Ph.D.) on predicting the origin of various strains of SARS-coV2 genomes.
- Learned about statistical analysis through Logistic Regression graphs to help trace and train the model we created
- Used machine learning techniques in Python, learned how to implement pandas and scikit-learn to help achieve a 92.2 percent accuracy rate

Peddie Environmental and Sustainability Team & Peddie Marine Club

CO-LEADER AND CO-FOUNDER

Hightstown, NJ

2021 - 2024

- Led a team of 50+ members to educate the entire school population about the environment and sustainability
- Presented at PEST school events and created various environmental-themed competitions for the student body; sent out weekly newsletters
- Led a team of 20+ members to collect water and run multiple tests monthly to send out to the NJ Watershed Institute
- Collected samples from Peddie Lake, ran tests for Turbidity, Salinity, Phosphates, Nitrates, Dissolved Oxygens, and Temperature, and then submitted results

Education

University of Wisconsin - Madison

B.S. COMPUTER SCIENCE, ECONOMICS WITH MATHEMATICS EMPHASIS

Madison, WI

Class of 2028

The Peddie School

HIGH SCHOOL DIPLOMA

Hightstown, NJ

Class of 2024

Skills

Technical/Environmental

JAVA, PYTHON, GIT, GITHUB

Other

LOGISTICS MANAGEMENT, FINANCE/MARKETING, OUTREACH, LEADERSHIP