

VRISHANK MALIK

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EDUCATION

Cornell University

Aug 2025 – May 2029

Bachelor of Science, Major in Environmental Engineering, Minor in Applied Economics

The Academy for Mathematics, Science & Engineering

Sep 2021 – June 2025

- Weighted GPA: 102.91 (100 Point Scale) | Unweighted GPA: 4.0 (4.0 Scale)

EXPERIENCE/ PROJECTS

CORNELL HYDROLOGY, ICE, AND RADAR PHYSICS LAB RESEARCHER

Jul 2024 – Present

- Collaborating with Professor Riley Culberg and Undergraduate Jillian Steinmetz
- Developed a buried lake identification algorithm using QGIS and visualized backscatter data to uncover seasonal trends; compared airborne ice-penetrating radar and SAR to recognize sampling biases

WEATHER ASSIST – *FOUNDER*

May 2022 – Present

- Designed an emergency messaging system to mitigate the number of casualties from weather-related catastrophes
- Integrated with Weather Works; application recognized by Senator Parker Space, Assemblyman Michael Inganamort, Assemblywoman Dawn Fantasia, and Mt. Olive Mayor Joe Nicastro; raised \$2000 from 50+ donors within three weeks

CITIZENS CLIMATE LOBBY – *NJ ENVIRONMENTAL OUTREACH MANAGER*

Jun 2021 – Present

- Invited to the national conference as a youth representative and pitched the Prove It Act to 3 US Congressmen leading to the act being passed by the Senate committee and introduced in the House of Representatives
- Collaborating with team to collectively send out 300+ Letters to the Editor; serving as a member of the National Youth Action Team amplifying the organizations reach to younger audience members

TARA INNOVATIONS LLC – *INTERN*

Jun 2024 – Jun 2025

- Research published in the International Research Journal of Engineering and Technology
- Pioneered cement composition to accelerate curing time and reduce excessive water input; designed a patent-pending salt gummies for patients undergoing a colonoscopy

TECHNOLOGY STUDENT ASSOCIATION – *CHAPTER PRESIDENT*

Sep 2022 – Jun 2025

- Recruited 70+ members; interviewed industry leaders to upgrade curriculum, presented findings weekly
- Under my leadership: 1st place in the NJ competitions of Promotional Design (2x), Webmaster (2x), Geospatial Technology; 2nd place in On Demand Video; 3rd place in Software Development

THE CONCORD REVIEW – *RESEARCH PAPER AUTHOR*

Dec 2023 – May 2025

- Authored paper regarding the Impact of Women on the Progressive Environmentalist Movement
- Attended 8-week history program to gain insights on relevant history topics

ROARING CUBS COLLECTIVE (RCC) STEM RESEARCH SCHOLARS PROGRAM

Sep 2023 – Jun 2024

- Examined GrIS rapid drainage events and synthesized glacial melt and impact dynamics
- Authored 10-page literature review; published in the RCC Journal and the Curieux Academic Journal

AWARDS/ HONORS

New Jersey Physics Olympics – *First Place Team Overall*

- A competition that tests abstract physics concepts and real-life physics-related events

TSA Geospatial Technologies Competition – *First Place*

- Researched the impact of diminishing wetlands on sea level rise and drafted a 30-page research paper

DECA Sports and Entertainment Marketing – *International Qualifier (Top Ten in States), Third Place for Role Play*

- Placed top ten out of 400 state competitors and qualified for the international conference

TSA Photographic Technologies Competition – *Second Place*

- Created photographic essays utilizing imaging technology to convey the challenges present in our society

The Patriotism Award

- Volunteered for the U.S. Armed Forces to assist in the creation of All Veterans Memorial, Turkey Brook Park, NJ

SKILLS

Quantum GIS, Computer-Aided Design (CAD), Python, Java, Dart (Flutter), Swift, Android and IOS Development, Environmental Policy, Investment and Market Research, MS Office, Communications, Conceptual Thinking