

Anshi Paul

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EDUCATION

Hershey High School, Hershey, PA

Rising Junior, Class of 2025

GPA: Weighted **4.4 / 4.0**

Advanced Placement: AP Computer Science A, AP Psychology, AP Language & Composition, AP Chemistry, AP Calculus BC, AP US History, AP Biology

Planned Senior Year Advanced Placement: AP Spanish Language, AP Statistics, AP Literature,

SKILLS

Java, Python, Raspberry Pi, Arduino, Git + GitHub, HTML5, CSS, JavaScript, React, Flutter, Facial Recognition

EXPERIENCE

Beginner Piano Tutor, *Summers of 2021-2023*

Introduction to Computer Science Tutor, *Summer 2023*

Beginner Flute Tutor, *Summer 2023*

Intermediate Chess Tutor, *Summer 2023*

HONORS & AWARDS

2023: Regeneron International Science and Engineering Fair (ISEF) - Finalist

- Qualified for and competed with ~1,600 students from 60+ countries

International BioGENEius Challenge - Winner

- Received the highest score after being selected as one of the Top 13 International BioGENEius Finalists for research projects in biotechnology

ISEF NC State College of Engineering Special Award

- ISEF Special Award for projects in the general computer science and engineering field
- Awarded a 2024 summer camp at NC State College of Engineering

CASEF (Capital Area Science and Engineering Fair) - Senior Grand Champion

- Won CASEF for developing a wearable memory assistive device for dementia and Alzheimer's patients using machine learning facial recognition
- Qualified for Regeneron ISEF

CASEF TEEM (Technology, Engineering, Math) Category - 1st Award

- Presented project through a poster board and interviews and earned a high enough score to win a 1st Award and win the CASEF TEEM category

PJAS (Pennsylvania Junior Academy of Science) Region 4 - 1st Award

- Presented research in an oral presentation and received a score of above 4 / 5 to receive 1st Award
- Qualified for PJAS States (ISEF conflict)

CASEF Special Awards - Medical Center Award, IEEE Award, and Love Award for Science Communication Skills

Science Olympiad Division C Invitationals and Regionals - Medaled in Flight and Wifi Lab (2nd overall in regionals, States conflict)

2022: CASEF TEEM Category - 1st Award

- Presented project through a poster board and interviews and earned a high enough score to win a 1st Award and win the CASEF TEEM category for the continuation of development of a tabletop braille-based communication device to bridge the deafblind communication gap

PJAS Region 4 - 1st Award

- Presented research in an oral presentation and received a score of above 4 / 5 to receive 1st Award
- Qualified for PJAS States

PJAS States - 1st Award and Perfect Score

- Presented research in an oral presentation and scored 5 / 5 to receive 1st Award and a perfect score

PJAS States - Engineering Category Winner

CASEF Special Awards - Love Award for Science Communication Skills and IEEE Award

Science Olympiad Division B Invitationals, Regionals, and States - Medaled in Electric Wright Stuff and Codebusters

2021: CASEF TEEM Category - 1st Award

- Presented project through a poster board and interviews and earned a high enough score to win a 1st Award and win the CASEF TEEM category for the development of a tabletop braille-based communication device to bridge the deafblind communication gap

PJAS Region 4 + States - 1st Award

- Presented research in an oral presentation and received a score of above 4 / 5 to receive 1st Awards

CASEF Special Awards - Love Award for Science Communication Skills and IEEE Award

Science Olympiad Division B Invitationals, Regionals, and States - Medaled in Experimental Design and Circuit Lab (Team also placed)

2020: Capital Area Science and Engineering Fair (CASEF) Junior Grand Champion Second Runner-Up

- 3rd place overall in CASEF Junior Division for developing a smart pillbox device for dementia patients with Arduino
- Earned Broadcom MASTERS nomination for placing in the top 10% of projects

CASEF TEEM Category - 1st Award

- Presented project through a poster board and interviews and earned a high enough score to win a 1st Award and win the CASEF TEEM category

Broadcom MASTERS - Nominated

- Received nomination for Broadcom MASTERS National Science Fair

PJAS Region 4 - 1st Award

- Presented research in an oral presentation and received a score of above 4 / 5 to receive 1st Award
- Qualified for PJAS States

PJAS States - 1st Award

- Presented research in an oral presentation and received a score of above 4 / 5 to receive 1st Award

CASEF Special Awards - IEEE and Lemelson Early Inventor Prize

Science Olympiad Division B Invitationals, Regionals, and States - Medaled in Elastic Launched Glider (Team also placed)

2019: Acceptance into Institute of Creative Problem Solving For Gifted And Talented Students

- Placed in top 0.1% in math of all students on Long Island in grade following an exam

PROJECTS

- **DORY: Wearable Memory Assistive Object Tracking And Retrieval Device For Dementia Using Machine Learning, 2023 - present**

Developing a wearable memory aid based on NEMO to increase independence among patients with Dementia and Alzheimer's and alleviate stress on caregivers by creating an out-of-the-way system to track the location of household objects using object recognition, room classification, and human-like directions.

- **NEMO: Wearable Memory Assistive Device for Dementia and Alzheimer's Patients Using Machine Learning Facial Recognition, 2022-2023**

Facial recognition assistant to increase social confidence among patients with Dementia and Alzheimer's using Python, RaspberryPi, Flutter (for app), and machine learning.

- **BrailleEZ: Bridging the Deafblind Communication Gap, 2020-2022**

Developed a tabletop communication device with a refreshable braille display and keyboard for portable and quick conversational braille/text translation using Python, a RaspberryPi, and a solenoid-driven actuating mechanism.

- **RemindMED: A Device to Remind When You Forget, 2019-2020**

Developed a smart reminding pillbox to help dementia patients adhere to medicine regimen using Arduino.

LEADERSHIP/COMMUNITY INVOLVEMENT

Founder + President of Hershey High School Women in STEM, 2023 - present

- Host women speakers from a variety of STEM careers
- Create a community to increase gender inclusivity in STEM
- Planning annual STEM Fair involving local professionals and high school STEM clubs

Vice President of Hershey Community Youth Alliance, 2021 - present (VP: 2022)

- Connecting Hershey High School and the Milton Hershey School through student exchanges and events

Member of Hershey Science Olympiad, 2019 - present

- Competed and medaled in aviation events since 7th grade

Member + Vice President of Hershey Gay-Straight Alliance, 2022 - present (Secretary: 2022, VP: 2023)

FLL Team Master of the Piece Student Mentor, 2023

Programmer, Strategy Lead, Safety Captain, Back-up Operator/Coach of FRC Robotics Team 2539, 2021 - present (Strategy Lead from 2022)

- Program robot (Java) and dashboard (React and Electron). Helped develop training workshops and trained new programmers.
- Oversee strategy and the strategy sub-team at competitions and during build season.
- Conduct outreach at events such as open-houses.
- 2022: District Event Winner, District Event Finalist, District Championship Finalists, World Champion Finalists, Won 4 off-seasons
- 2023: District Event 2-Time Winner, District Championship Finalists, World Champion Milstein Division Finalists, girlPOWER Finalists, Won remaining off-seasons

Member of Math National Honors Society, 2022 - present

Member of Spanish National Honors Society, 2023 - present

Member of National Honors Society, 2023 - present

Member of Tri-M Music National Honors Society, 2021 - present

Outreach Manager of Hershey Bands, 2022 - present

Member, Outreach Manager, + Flute Section Leader for Hershey Trojan Marching Band, 2021 - present (Outreach Manager: 2022, Section Leader: 2023)

Auditioned Member of PMEA District 7 Band on Flute, 2022, 2023

Auditioned Member of DCMEA County Band on Flute, 2021, 2022, 2023

Auditioned Member of Wind Symphony on Flute, 2021 - present