

# Easton Wei

## Contact Information

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## Education

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**WW-P Community Middle School**

**Fall 2022 – Summer 2025**

*Student*

## Internships

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**WINLAB Summer Intership**

**Jun – Aug 2025**

*Intern*

Worked on the project “Visual Perception for AR Glasses”, and did detailed benchmarking on the effect of framerate on the accuracy of two different SLAMs.

## Awards and Results

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**Mathematics**.....

- Strong background in algebra, combinatorics, number theory, and Euclidean geometry.
- Also studied linear algebra and multivariable calculus.

**MathCounts NJ State Competition**

**March 2025**

*4th place*

MathCounts is a middle-school competition that involves an individual round and a team round. The top 10 individual competitors compete in a buzzer-based round. The top 4 finishers after the buzzer-based round advance to the National Competition.

**AIME I**

**February 2025**

*10/15*

Top scorers on the AMC 10 and AMC 12 are invited to participate in the AIME. While the competition assesses similar areas compared to the AMC 10/12, the problems are significantly more difficult.

**PUMaC (Princeton University)**

**November 2024**

PUMaC is a high-school mathematics competition, offered in-person at Princeton University. The 8-person team was selected from the student body of WW-P High School North and WW-P Community Middle School.

**MMATHS (Yale University)**

**November 2024**

*3rd place team*

MMATHS is a high-school mathematics competition consisting of an individual round and a team round, available to be taken at multiple venues across the country. The 6-person team was selected from the student body of WW-P High School North and WW-P Community Middle School.

**AMC 10B**

**November 2024**

*138/150, top 1%*

*Honor Roll of Distinction*

The AMC 10 is open to all American students in grades 10 and younger. The problems cover concepts including algebra, combinatorics, geometry, and number theory.

## **ARML (Pennsylvania State University)**

**May 2024**

*Participated through WW-P High School North*

The ARML is a high-school math competition offered at Pennsylvania State University. Each high school can send 1–2 teams to the event. 30 students (split into two teams) were selected from the WW-P and Princeton school districts to participate in this event.

## **MathCounts National Competition**

**May 2024**

*41st out of 224 competitors*

The top 4 middle-school students in each of 56 U.S. states and territories are selected to participate in the National Competition.

## **MathCounts NJ State Competition**

**March 2024**

*2nd place*

MathCounts is a middle-school competition that involves an individual round and a team round. The top 10 individual competitors compete in a buzzer-based round. The top 4 finishers after the buzzer-based round advance to the National Competition.

## **AMC 8**

**February 2024**

*24/25, top 1%*

*Honor Roll of Distinction*

The AMC 8 is a middle-school mathematics competition open to be taken by American students in grades 8 and younger. It assesses geometry, number theory, algebra, and combinatorics.

## **Science**

- Solid background in chemistry, biology, physics, and astronomy.

## **PRISMS Science Bowl**

**February 2025**

*1st place, team captain*

A state-wide science competition organized by the Princeton International School of Math and Science (PRISMS).

## **Science Olympiad National Competition (Michigan State University)**

**May 2024**

The first-place team at each state competition advances to the national competition.

## **NJ State Science Olympiad Competition**

**March 2024**

*1st place*

Science Olympiad is a middle-school science competition that features multiple events, with questions based on physics, chemistry, biology, geology, and engineering.

## **Skills**

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### **General Computer Science**

- Watched lecture videos for MIT 6.006 (Introduction to Algorithms), offered by the MIT CSAIL department.
- Familiar with Python, Arch Linux, and Ubuntu Linux.

### **Machine Learning**

- Studied course materials in CS231n (Deep Learning for Computer Vision), offered by the Computer Science Department at Stanford University.
- Familiar with PyTorch, NumPy, Convolutional Neural Networks, Recurrent Neural Networks, Transformers (Multihead Self-Attention, Positional Encoding), Generative Adversarial Networks, Self-Supervised Learning

### **Chemistry**

- Studied General Chemistry, AP Chemistry, and Organic Chemistry

## Hobbies

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Tennis, Violin, Computer Programming, Rubik's Cube

### **GCU Spring 2023 (Speedcubing)**

**May 2023**

*14.20 second average 3x3x3 time*

Competitors solved Rubik's cubes (and similar puzzles) as fast as they could.

### **Central Jersey Regional Orchestra**

**February 2023**

*Participated in String Orchestra*

60 violinists from the Central Jersey region were selected to play the violin in the Regional Orchestra.