

MATTHEW WON

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Education

University of Maryland, College Park, MD	<i>Expected May 2026</i>
Bachelor of Science in Electrical Engineering	
University Honors	
GPA: 4.00	
Centennial High School	<i>Aug 2018 - May 2022</i>
Unweighted GPA: 4.00	
Weighted GPA: 4.93	
Graduated top 5% of the class	

Projects

Over Terrain Vehicle	<i>Jan 2023 - May 2023</i>
<ul style="list-style-type: none">- Created and coded an OTV that was tasked to extract a sample of water, run tests on the sample, and navigate through an obstacle course	
Arduino Music Player	<i>Jan 2023</i>
<ul style="list-style-type: none">- Created and coded an arduino circuit that can play any note from a grand piano- Can change tempo- Can change length of each individual note	

Activities

Science Olympiad at University of Maryland, College Park	<i>Sep 2022 - Present</i>
<ul style="list-style-type: none">- Wrote exams for the following events: Wi-Fi Lab, Remote Sensing, Codebusters	
Science Olympiad at Centennial High School	<i>Sep 2018 - May 2022</i>
<ul style="list-style-type: none">- Competed in multiple tournaments with the school's Science Olympiad team- Served as the secretary during the 2021-2022 school year	
Math Team	<i>Sep 2018 - May 2022</i>
<ul style="list-style-type: none">- Competed in multiple Howard County Math League tournaments- Competed in the 2019 Ex Numera Johns Hopkins Math Tournament- Competed in the American Mathematics Contest 12 in January 2019 and January 2020- Competed in the American Invitational Mathematics Examination in March 2019	
National Math Honor Society	<i>Sep 2019 - May 2022</i>
<ul style="list-style-type: none">- Tutored students across multiple math courses, from precalculus to calculus to differential equations- Served as tournament board in 2021, verifying and creating problems for the annual Mu Alpha Theta tournament hosted by the school	
Science National Honor Society	<i>Sep 2021 - May 2022</i>
<ul style="list-style-type: none">- Tutored students in physics	
Science Journal	<i>Nov 2020 - May 2022</i>
<ul style="list-style-type: none">- Wrote published articles about Thevenin Voltage and Resistance	
Science Bowl	<i>Aug 2021 - May 2022</i>
<ul style="list-style-type: none">- Competed in multiple Science Bowl tournaments with the school's Science Bowl team	
National Technical Honor Society	<i>Sep 2021 - May 2022</i>
<ul style="list-style-type: none">- Tutored middle school students in cryptanalysis	
Competitive Coding Club	<i>Jan 2021 - May 2022</i>
<ul style="list-style-type: none">- Participated in multiple coding competitions with club members	

Awards/Certificates

Maryland Division C Science Olympiad 2022 State Competition

Apr 2022

- Qualified for Nationals tournament from 1st place placement
- Medaled in Codebusters, Wright Stuff, WiFi Lab, Remote Sensing, Detector Building

Maryland Division C Science Olympiad 2022 Regional Competition

Mar 2022

- Placed 1st
- Medaled in Codebusters, WiFi Lab, Remote Sensing, Detector Building

Lockheed Martin CodeQuest WMA Event Advanced Level

Apr 2021

- Placed 1st with two other teammates using C++

Maryland Division C Science Olympiad 2021 State Competition

Apr 2021

- Qualified for Nationals tournament from 1st place placement
- Medaled in Codebusters, Circuit Lab

Maryland Division C Science Olympiad 2021 Regional Competition

Mar 2021

- Placed 2nd
- Medaled in Codebusters, Circuit Lab

USACO Silver

Jan 2021

- Promoted to silver division in the USACO competition using C++

American Invitational Mathematics Examination (AIME) Qualifier

Feb 2019

- Awarded for scoring top 5% amongst all contestants on AMC12.

Skills

Computer: HTML, CSS, JavaScript, Google Docs, Google Sheets, Google Slides, Microsoft Office, Java, C++, C, MATLAB

Languages: English, Korean

Hardware: Arduino Uno, Soldering