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Summary

Dedicated high school student with a passion for volunteering, software development, teaching, and Machine Learning (AI). Proven commitment, leadership, and communication skills. Ready to make a positive impact on the world.

Experience

CAD Specialist & Mechanical Design Engineer

Red Watch Robotics

Oct 2023 - Present (2 months)

Design frame and components for our robot. Help print and create parts for the robot. Teach incoming members about CAD (Computer Aided Design) and their main contact for questions and concerns. Attend meetings with other Mechanical Specialists and Directors regarding the progress within the branch and future deadlines and projects.



Founder and CEO

STEM Champions Initiative

Dec 2022 - Present (1 year)

Spearheaded the development of the project. Registered the project as an official non-profit. Contacted 50+ nonprofit organizations to collaborate. Fundraised to pay for science kits. Hired 5+ members to help with the project.

Software Programmer + Writer

Keenness Technologies

May 2023 - Present (7 months)

Develop code/ Consult for the company. The lead writer for any documents necessary to be sent out.

Lead Web Developer

Keenness Technologies

May 2022 - Present (1 year 7 months)

Developed Website for Keenness Technologies



Student

Project Lead The Way

Sep 2022 - Present (1 year 3 months)

A selective 4-year engineering program that teaches students about the different fields of engineering (Manufacturing, Design, and Software). At the end of the program, students create and present a capstone project in front of the school.

Mechanical Design Engineer

Red Watch Robotics

Nov 2022 - Oct 2023 (1 year)

Design frame and components for our robot. Help print and create parts for the robot.



Student

Inspirit AI

Jun 2023 - Jul 2023 (2 months)

Learned about different Machine Learning algorithms and their real-world applications. We also learned about the mathematical formulas used by these algorithms to make them work. We were taught by graduates of Ivy League Schools. At the end, students completed a final project and presented it to the tutors and fellow students.



AWS Intern

Amazon Web Services (AWS)

Jan 2023 - Feb 2023 (2 months)

Learned about the various functions of Machine Learning. Developed a program that facilitates research with different species of trees.



Visa Token Service Technology Virtual Experience Program

Visa

Dec 2022 - Jan 2023 (2 months)

Got the opportunity to step into the shoes of a Visa team member and complete tasks that replicate the work that our software development team does every day. I learned how to confirm the validity of an incoming Visa transaction request and determine how Visa APIs solve an array of cardholders' matters.

Director of Software

HMS SeaBots

Sep 2021 - Jun 2022 (10 months)

Supervised the dual-axis gripper system on the robot. Managed the software and made sure that the assembly worked effectively. Assisted 20+ team members with electrical and mechanical issues.

Job Safety Officer of HMS SeaBots

HMS SeaBots

Sep 2020 - Jun 2021 (10 months)

Created a policy of rules to ensure a safe working environment. Wrote the required safety documents and curated the team's marketing presentation.

Education



Lenape High School

High School Diploma

Sep 2022 - Jun 2026

Skills

Machining • Job Safety • Artificial Intelligence (AI) • Presentation Skills • Public Speaking • STEM • Mechanical Engineering • JavaScript • Writing • Management

Honors & Awards

8th Place at the 20th MATE ROV Championship - Harrington Middle School

Jun 2022

Designed and built a remotely operated vehicle (ROV) to meet the requirements issued by the MATE ROV Competition which consists of tasks that simulate real-world problems. Assisted in building the ROV frame, created the main programs that the ROV runs on, and helped with coming up with marketing ideas. Placed eighth out of 20+ teams in the high-school Ranger class.

1st Place at the Massachusetts Regional MATE ROV Competition - Harrington Middle School

May 2022

Designed and built a remotely operated vehicle (ROV) to meet the requirements issued by the MATE ROV Competition which consists of tasks that simulate real-world problems. Assisted in building the ROV frame, created the main programs that the ROV runs on, and helped with coming up with marketing ideas

Placed first out of 10+ teams in the high-school Ranger class.

1st Place MATE ROV Pennsylvania Regional Competition - Harrington Middle School

Jun 2021

Designed and built a remotely operated vehicle (ROV) to meet the requirements issued by the MATE ROV Competition which consists of tasks that simulate real-world problems. Assisted in building the ROV frame, created the main programs that the ROV runs on, and helped with coming up with marketing ideas

Placed first out of 10+ teams in the high-school Scout class

4th Place in Mathlete Competition - Harrington Middle School

Dec 2021

The Mathlete Competition is a progressive math test that increases in difficulty with every question. Placed 4th in a school out of 400+ students in the Mathlete Competition.

3rd Place in NJ DECA District Conference in Principles of Business Management and Administration - DECA

Jan 2023

DECA is an international organization that hosts business-related competitions. Scoring consists of a written test and a roleplay, where you act out a specific scene to the best of your ability.

3rd Place in Coriell Science Fair (Engineering field) - Coriell Science Fair

Mar 2023

The Coriell Science Fair allows students to develop and present the research they have done in a particular field. Podium winners move on to the DVSF (Delaware Valley Science Fair) to compete.

4x Principal's List - Lenape High School

Apr 2023

Straight A's for a marking Period.

Silver Medal Maxima Cum Laude - National Latin Exam

Apr 2023

Second Place winner in the National Latin Exam, a Latin-based exam that tests the skills of different age groups.