

MATTHEW BANDOS

mat.bandos@gmail.com; Monroeville, PA

Highly motivated and accomplished student with a strong academic background in computer science and a passion for robotics. Thrives in collaborative team settings and excels in challenging projects. Seeking opportunities to further develop expertise in robotics and programming, while actively contributing to a dynamic organization in a real-world environment.

Education

GPA: 4.0+

PSAT: 1510

SAT: 1560

AP Courses: *Computer Science (5), Calculus AB (5), Calculus BC (Expected), Physics I (4), Physics C (Expected), Chemistry (Expected), Language and Composition (Expected), U.S History (Expected)*

Experience

Robotics Club: Lead Programmer and TA 5/6/2021 – present

Programming, debugging, interacting and troubleshooting electronic components and custom circuits. Communication with Mechanical Team. Strategize gameplay at FIRST Robotics Competition. Software Teaching Assistant (Taught C++ to younger programmers, distributed workload).

Camp Invention: Intern 6/24 – 7/1/2021

Set up STEM activities and events. Assisted in teaching material. Helped design prototypes. Facilitated movement of campers. Supervised children during breaks.

Extra Courses

MIT EdX: *Intro to Computer Science and Programming Using Python* 6/3 – 8/6/2020
Core Elements, Functions, Tuples, Lists, Dictionaries, Debugging, Assertions and Exceptions, Classes and Inheritance, Computational Complexity, Searching/Sorting Algorithms, Data Visualization

MIT EdX: *Introduction to Computational Thinking and Data Science* 10/14 – 12/18/2020
Optimization/Knapsack Problems, Decision Tree, Dynamic Programming, Graph, Stochastic Thinking, Random Walks, Inferential Statistics, Monte Carlo Simulations, Data Usage, ML, Statistical Fallacies

Projects

Physics Homework Solver: *Systematic brute force algorithm to solve homework problems. (Python)*

Google Forms to Canvas: *Scans and copies google form and converts to its Canvas equivalent (Python)*

Robotics Software: *Used to operate Robot in 2023 FIRST Regional and Championship (C++)*

Personal Website: *General Information About Me (HTML and CSS)*

Major Achievements:

FIRST GPR Robotics – *1st place Alliance*

Math Kangaroo – *1st in PA, 1st in Nation*

AAA WPIAL Tennis – *1st place team*

Extra Curriculars:

Snowsports Club, Tennis Team, Robotics Club, Chess Club, Piano, Community Service (60+hrs)