

MATTHEW BANDOS

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Website: (<https://matthewbandos.netlify.app/>) GitHub: (<https://github.com/RoboticsMB>)

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: Team Captain, 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). Presented at Google about robotics (Bakery Square Offices, Pittsburgh, Pennsylvania)

Chess Camps: Teaching Assistant 6/19/2023 – Present

Set up Chess activities. Reiterated concepts. Answered questions. Assisted with puzzles and gameplay. Facilitated movement of campers. Supervised children.

Stem Coding Lab Volunteer Teaching Assistant 6/7/2023 – Present

Set up CS activities. Assisted with teaching material. Helped in project prototyping and design. Facilitated movement of campers. Supervised children during breaks.

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

Personal Website: *Information About Me* (<https://matthewbandos.netlify.app/>)(HTML, CSS, Java Script)

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++)*

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 (80+hrs)