

# Asa Paparo

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## Education

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### Massachusetts Institute of Technology

Cambridge, MA

Candidate for Bachelor's Degree in Computer Science

8/2024 – Present

- Completed *Fundamentals of Programming* and *Introduction to Low-level Programming*
- Currently taking *Robotics: Science and Systems* and *Computation Structures*

### The Bronx High School of Science

Bronx, NY

Advanced Regents Diploma

8/2020 – 6/2024

- 4.0 GPA
- Completed courses in linear algebra, multivariable calculus, mechanics, and electricity & magnetism
- Student Director of IT for the journalism and yearbook programs

## Experience

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### MIT Motorsports

Cambridge, MA

Autonomous Driving Software Engineer

8/2024 – Present

- Create codebase for newly founded autonomous racing team
- Support subteam with ROS 2 and Linux problems
- Develop model predictive control implementation for racecar
- Rewrite ROS build and dependency management system to be more reproducible

### Charles Stark Draper Laboratory

Cambridge, MA

Autonomous Systems Intern

6/2024 – 8/2024

- Developed software for control and simulation of a fully autonomous rover with ROS2 and Gazebo
- Collaborated with engineering team of 7 interns to budget, plan, and implement solution to design challenge

### SciBorgs Robotics Team

Bronx, NY

Head of Software

5/2023 – 6/2024

- Led software team of 10+ people in development and integration of robot software
- Taught new members programming, version control, software development, calculus, and basic control theory

Programmer

11/2021 – 6/2024

- Contributed to upstream development of critical libraries utilized by teams, including WPILib
- Employed control theory, path following, and localization to achieve autonomy in competition

### NYC FIRST

NY

Volunteer

11/2022 – 12/2023

- Taught foundational programming and robotics knowledge to middle school and high school students
- Mentored the students to engage in a STEM design process
- Volunteered at local competitions, including as a referee

## Awards

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Dean's List Finalist – FIRST Robotics

4/2023

Disruptive Engineering Award – Beaver Works Summer Institute

7/2023

## Skills

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**Programming:** Rust, Python, Java, C, C++, Bash, C#, JS, TS, PHP

**Robotics:** ROS2, Gazebo

**Tools:** Linux, Systemd, Nix, Docker/Podman, Helix, [typst](#), L<sup>A</sup>T<sub>E</sub>X, Git