

# Asa Paparo

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## Education

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### Massachusetts Institute of Technology

Bachelors Degree in Computer Science

Cambridge, MA

8/2024 - 5/2028

### The Bronx High School of Science

Advanced Regents Diploma

Bronx, NY

8/2020 - 6/2024

- 4.0 GPA

## Experience

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### Charles Stark Draper Laboratory

Autonomous Systems Intern

Cambridge, MA

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

### Beaver Works Summer Institute

Autonomous RACECAR Competitor

Cambridge, MA

7/2023 - 7/2023

- Led and supported 3 person team to honorable mention in the Grand Prix
- Rewrote part of the course's core library to improve efficiency for all competing and future teams
- Researched particle filtering based SLAM and autonomous navigation using LIDAR and IMU

### SciBorgs Robotics Team

Head of Programming

Bronx, NY

5/2023 - 6/2024

- Led software team of 10+ people in development and integration of software for manual and autonomous robot control
- Taught rookie members Java, version control, software development practices, linear algebra, calculus, and control theory

Programmer

11/2021 - 6/2024

- Maintained robotics codebases with a team using Java and Git
- Contributed to upstream development of critical libraries utilized by teams, including WPILib
- Employed controls, path following, and localization to achieve autonomy in competition

### Bronx Science Journalism/Yearbook

Student Director of IT

Bronx, NY

9/2022 - 6/2024

- Maintained a production LAMP server utilizing bash, Ubuntu, Systemd, Apache, PHP, and Podman
- Published articles for the school newspaper and yearbook

### NYC FIRST

Volunteer

NY

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

## Skills

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

**Robotics:** ROS2, Gazebo, Nav2, OpenCV, AprilTags

**Tools:** Fedora, Ubuntu, Systemd, Helix, Apache, Podman, Docker, Git, GitHub