Samir Rashid

STUDENT AT UCSD

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Education

University of California San Diego   *San Diego, CA*

Math-CS and Cognitive Science, GPA: 4.0/4.0   *2020-2024*

Experience

FRC Robotics Team 766   *Menlo Park, CA*

Programming Team Lead   *2017 - 2020*

- Taught programming concepts to high school students using Java while providing input for lesson plans and project ideas.
- Wrote tutorials and wiki, trained rookies, image processing and object recognition, **LiDAR based Monte-Carlo localization**.
- Implemented a pure pursuit based path following algorithm in Java that can perform **real-time arbitrary path following**. When working with a map, pathfollowing will autocorrect and avoid obstacles. Also using our web GUI, the user can click on a point and have the robot drive there.

Projects

Music Training App   *React*

Lead Developer   *Jun-Sept 2020*

- React webapp that helps you learn rhythm and tone with your MIDI keyboard.
- Designed UI and modular project architecture, used GitHub Flow best practices, and remotely collaborated with team during programming.

DIY Projects

- Latin poetry reader (prosody), ancient Greek keyboard firmware mod, handmade keyboard, quadcopter, analog turntable, trackball, automated course registration with GUI, 3D printed and CADed air filter. Countless hours.

Awards

Xerox Award for Innovation and Information Technology   *2019*

- Awarded by University of Rochester for a strong interest in innovation and proven to be high achiever in this area.
- Took most AP classes at high school.

Skills

Languages   Python, Java, C, JavaScript, Bash, LaTeX, MATLAB, Google Apps Script

Software   React, AWS, Docker, Linux, Unity, Fusion 360