

Samir Rashid

STUDENT AT UCSD

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Education

UC San Diego

MATH-CS AND COGNITIVE SCIENCE, GPA: 4.0/4.0

San Diego, CA

2020-2024

Experience

FRC Robotics Team 766

PROGRAMMING TEAM LEAD

Menlo Park, CA

2017 - 2020

- Taught programming concepts to high school students using Java and Processing while providing input for lesson plans and project ideas.
- Wrote tutorials and wiki, trained rookies, limelight image processing, Monte-Carlo localization.
- I worked on a pure pursuit based path following algorithm in Java that can follow any arbitrary path in real-time. 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 App

LEAD DEVELOPER

Jun-Sept 2020

- React webapp that helps you learn rhythm and tone with your MIDI keyboard.

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 of all students.

Skills

Languages Python, Java, C, JavaScript, TeX, MATLAB

Frameworks React, AWS, Docker