

# 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

### DIY Projects

- Latin poetry reader (prosody), Greek keyboard, handmade keyboard, quadcopter, analog turntable, speakers, trackball, automated course registration. 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