# Roshni Vakil

**rvakil@calpoly.edu**

ENGINEERING STUDENT ASPIRING TO MAKE A POSITIVE IMPACT ON THIS WORLD

## Education/Academic Achievements

**Engineering Academy, Dublin High School**
One among 26 students in DHS Engineering Academy 2020 Cohort for Computer Science

**2020 National Merit Scholarship Finalist**

**Notable Classes - Dublin High School**
Senior Year: PLTW Honors Digital Electronics, AP Calculus BC
Junior Year: PLTW AP Computer Science A, AP Calculus AB, AP Chemistry, AP Language & Composition
Sophomore Year: PLTW Honors Principles of Engineering, AP Statistics, Honors Chemistry
Freshman Year: PLTW Computer Science/Software Engineering, Intro to Digital Art

**Cumulative High School GPA:** 4.28

## Clubs/Extracurricular Activities

**Gael Force Robotics Club, Dublin High School**
- 2019 - 2020 (Senior Year): **Team 5327V - Season Cut Short Due to COVID-19**
- 2018 - 2019 (Junior Year)**: Team 5327R - Competed in 2019 VEX World Championship**
    - Served as builder and head programmer
    - Mentored incoming robotics club members
- 2017 - 2018 (Sophomore Year)**: Team 5327C - Competed in 2018 VEX World Championship**
    - Served as builder
- 2016-2017 (Freshman Year): **Team 5327A - Competed in 2017 VEX State Championship**
    - Served as builder

**Girls Who Code Club, Dublin High School**
- 2019 - 2020 (Senior Year)**: President**
    - Was in charge of designing activities to teach web development to 9th-12th graders
    - Headed bi-weekly club meetings where activities and lessons took place
- 2018 - 2019 (Junior Year)**: Event Director**
    - Helped teach web development during bi-weekly meetings to 9th-12th graders
    - Helped organize and run workshops during a promotional hackathon for 6th-9th graders

## Programming Skills

Java, HTML, CSS, Python

## Volunteering

**Dublin Senior Center -  Dublin, CA**
June 2019 - March 2020 (Temporary Pause due to COVID-19)
Serve meals prepared by Open Heart Kitchen to local seniors

**Open Heart Kitchen -  Pleasanton, CA**
Jan 2019 - Sept 2019
Prepare food for local seniors, veterans and homeless at Ridgewood Commons Senior Center and Valor Crossing

**Fertile Groundworks (Garden of Grace) - Livermore, CA**
Feb 2018 - April 2018
Garden worker at a community garden devoted to growing food for local seniors, veterans and homeless

## Other

Persistent, Curious, Logical, Cooperative/Collaborative, Optimistic

## SAT Test Scores

- SAT: 1540/1600 (Math: 750, English: 790)
- Junior PSAT/NMSQT: 1500/1520
- Chemistry SAT Subject Test: 760/800
- Mathematics Level 2 SAT Subject Test: 800/800

## Awards

**2018 - 2019 (Robotics)**

- Design Award at 2019 California VEX VRC High School State Championship - Sacramento
- Judges Award at Signature Event: Google VEX Turning Point High School Tournament
- Judges Award at Vanden Robotics Turning Point (HS Only) Tournament
- Design Award at Dougherty Valley High School VEX Robotics Tournament

**2017 - 2018 (Robotics)**

- Tournament Semi Finalists Award at 2018 California VRC High School State Championship - Northern California
- Robot Skills 2nd Place (VRC/VEXU) Award at Bay Area Last Chance Skills Challenge
- Tournament Finalists (VRC/VEXU) Award at Tracy Triangle VEX Robotics Tournament
- Excellence Award at Bellarmine Bay Area VEX Robotics Tournament

**2016 - 2017 (Robotics)**

- Tournament Finalists Award at the 6th Annual Central Valley Starstruck Tournament

**2017 Alameda County Science Fair**
- Designed a device that effectively neutralized acid rain proving that acid rain can be a useful water source if properly and efficiently neutralized
- Placed third for the high school section, category MENG (Mechanical Engineering and Instruments)

**2017 DHS Entrepreneurship Competition Showcase**

- Designed and programmed an arduino water alarm capable of detecting leaks in water faucets and alerting anyone in the vicinity of the water wastage
- Placed Third  in the Engineering Class