Roshni Vakil

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Engineering Student Aspiring to Make a Positive Difference in This World

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EDUCATION / ACADEMIC ACHIEVEMENTS

Notable Classes -- Dublin High School, Dublin, CA

AUGUST 2017 - PRESENT

Freshman Year: PLTW Computer Science/Software Engineering; Sophomore Year: PLTW Honors Principles of Engineering, AP Statistics, Honors Chemistry; Junior Year: PLTW AP Computer Science A, AP Calculus AB, AP Chemistry, AP Language & Composition

Cumulative High School Unweighted GPA: 4.00

College of Interest: California Institute of Technology

Program of Study: Undetermined Engineering Field

Engineering Academy, Dublin High School

MARCH 2017 - PRESENT

Selected, along with 29 other students, to be part of Dublin High School's Engineering Academy 2020 Cohort for Computer Science

CLUBS/EXTRACURRICULAR ACTIVITIES

Gael Force Robotics, Dublin High

SEPTEMBER 2017 - PRESENT
- Freshman Year: Team 5327A (Development Team)
    - Served as a builder
    - Placed 24th out of 36 Teams at State Championships
- Sophomore Year: Began in 5327D (Development Team) but transferred over to 5327C after a month long internship. As an official member of 5327C:
    - Served as a builder
    - Participated in 2018 VEX World Championships
- Junior Year: Team 5327R
    - Serve as head programmer and a builder
    - Mentor incoming robotics club members

SKILLS

Proficient in Programming Languages: HTML & CSS, Python, Command Line, Java; Logical Thinker; Strong Interpersonal Skills

VOLUNTEER EXPERIENCE

Fertile Groundworks -- Livermore, CA

FEBRUARY 2018 - PRESENT
- Volunteer at a community garden devoted to growing food for the homeless almost every Saturday morning

AWARDS

2017 Alameda County Science Fair
- Designed a device that effectively filtered acid rain
    - Goal was to prove that acid rain can be a useful water source if properly and efficiently neutralized
- Received 3rd place for the high school section, category MENG (Mechanical Engineering and Instruments)

Placed Third for our Water Alarm in One of Our Engineering Classes and Advanced to Participate in the 2017 DHS Entrepreneurship Competition Showcase

- Designed and programmed an arduino that was able to recognize a water faucet being on for an extensive period of time and make loud noises to alert anyone in the vicinity of the wastage