Vikas Ummadisetty

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An independent and self-motivated student with relevant skills seeking to grow my knowledge of computer science.

WORK/VOLUNTEER EXPERIENCE

Cog Systems, Chicago, IL— *Cyber Security Consultant*

JUNE 2020 - PRESENT

Kernel development on seL4&KVM hypervisor to secure mobile and IoT devices for defense-grade application

Atlas Robotics, Dublin, CA— *Cofounder/Programmer*

SEPTEMBER 2020 - PRESENT

Independent elite robotics organization dedicated to competing in VEX Robotics and spreading robotics interest and resources to youth and underrepresented groups

Galaxy Explorer Elite, Chabot Space and Science Center— *Museum Volunteer*

JUNE 2019 - PRESENT

Led interactive science demonstrations for public visitors to present abstract concepts in an understandable and engaging manner (Volunteer time: 70 hours)

MATHCOUNTS, Fallon Middle School— *Math Teacher*

SEPTEMBER 2017 - PRESENT

Guided a group of 25 middle school students through two successful seasons of competitive Math Counts. Converted complex concepts into an understandable lecture (Volunteer time: 60 hours)

COSMOS, UC Davis — *Student Researcher*

JUNE 2018 - AUGUST 2018

Biophysics - Modelled stochastic behavior of molecular motion of biological systems. Worked with a team to engineer an autonomous robot which produced three dimensional reconstructions using computer vision and dense point clouds

KUMON Math and Reading Center, 4554 B Dublin Blvd, Dublin CA— *Primary Instructor*

JUNE 2016 - SEPTEMBER 2018

Tutored new students and provided graded feedback in subjects of literature analysis and high-level mathematics

EDUCATION

Dublin High School, 8151 Village Pkwy, Dublin, CA— *Engineering Academy Student*

AUGUST 2017 - JUNE 2021
Cumulative GPA: 4.61

SKILLS

Python (advanced)
R (advanced)
C++ (advanced)
Linux (advanced)
Spanish (intermediate)
Competitive Programming

AWARDS

- VEX Robotics State Champion, 2021- Team 32T
- VEX Robotics California State Championship Semi-Finalist, 2018 - Team 5327X
- VEX Robotics California State Championship Design Award, 2019 - Team 5327R
- VEX Robotics High School World Championship Qualifier, 2018-2021 (Teams 5327X, 5327R, 5327V, 32T)
- Science Olympiad Regional Gold Medalist - Mousetrap Vehicle, 2019
- Science Olympiad Bay Area 3rd Place Team and State Qualifier, 2020
- VEX Robotics #2 Skills Ranking CA (#60 in world), 2020
- USA Computing Olympiad, Gold Div
- Alameda County Science Fair 1st Place in Biological Sciences Category, 2020
- 2020 China-US Young Maker Competition Grand Prize Winner

ACTIVITIES/CLUBS

Dublin Science Olympiad — *Cofounder/Vice President*

2018 - PRESENT

Facilitated build based events, including Mousetrap Vehicle, Boomilever, and Wright Stuff

Gael Force Robotics: Team 5327V— *Team Captain & Lead Programmer*

2017 - PRESENT

Led team of Programmed robotics in C++ with PROS API on VEX V5 Platform

Gael Force Cyber Patriot Team— *Linux Specialist*

2017 - PRESENT

Used Linux scripts to harden and secure vulnerabilities in Ubuntu and Debian-based operating systems.