

Keijay Huang

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EDUCATION

Beckman High School

Unweighted GPA: 4.0 / Weighted Academic GPA: 4.7

Irvine, CA

2021 - Present

Irvine Valley College

Dual Enrollment - Analytical Geometry and Calculus I

Irvine, CA

Jun 2023 - Aug 2023

ACADEMICS

SAT - 1570

Math: 790 / Reading: 780

Aug 2024

Irvine, CA

Perfect Score - AP Computer Science Principles

College Board

May 2023

Irvine, CA

- Top 0.28% out of 160,000 test takers to earn every point possible on the 2023 AP Computer Science Principles Exam

AP Scholar with Distinction

College Board

May 2024

Irvine, CA

Top 9% of Graduating Class / Principles Honor Roll

Beckman High School

2021 - 2024

Irvine, CA

- UC Guaranteed Admission

ROBOTICS

4-time Top 10 World Robot Skills Rank

VEX Robotics

2021 - 2024

25hr / week

- #6 Ranked Robot Skills (Driver + Programming) in the world among 6500+ teams in 2024
- Achieved the #1 Driver Skills score in the World in 2023

World Division Finalist

VEX Robotics World Championship

Apr 2023

Dallas, TX

- #2 out of 90 teams at the VEX Robotics World Championship

6-time World Championship Qualifier

VEX Robotics

2018 - 2023

Dallas, TX

- Qualified for the VEX Robotics World Championship 6 times in 6 consecutive seasons
- Worlds Award Winner (2021, 2022, 2023)

45+ Regional, State, and National Awards

VEX Robotics

2018 - 2023

Dallas, TX

- Awards include: Tournament Champion, Excellence Award, Robot Skills Champion, Judges Award, Think Award, Create Award, Amaze Award

PROFESSIONAL & VOLUNTEER EXPERIENCE

Paid Competition Team Coach

Rolling Robots

Jun 2022 - Present

6hr / week

- Led 6 teams to qualify for the VEX Robotics World Championship
- Instructed team members in designing, building, and programming robots for complex engineering challenges
- Taught courses in C++, Scratch, and Python

Robotics Mentor

Jeffery Trail Middle School & Orchard Hills Middle School

Jun 2021 - Present

40hr total

- Taught students to design, build, and program robots
- Coached teams consistently qualifying for the VEX Robotics State and World Championships

Event Coordinator

Jul 2023 - Present

*Steam For All Beckman Chapter**15hr total*

- Provided meaningful community service opportunities
- Organized engaging events to promote STEAM education to young students

Treasurer

2023 - Present

*Beckman Computer Science Club**10hr total*

- Organized monthly meetings to engage students in various computer science topics
- Engaged students in competitive programming (USA Coding Olympiad)

EXTRACURRICULAR**Chamber Orchestra**

2022 - Present

*Beckman High School**5hr / week*

- First Violinist in the Chamber Orchestra
- Performed in several esteemed locations:
 - *Walt Disney Concert Hall*
 - *Renée and Henry Segerstrom Concert Hall*
 - *Carnegie Hall*
- National Finalist - American Prize in Orchestral Performance

Academy Soccer

2020 - Present

*Liverpool Football Club International Academy**4hr / week*

- Played Fullback in the Elite Academy League
- Trained with professional coaches from LFCIA
- Coached by U.S. National Soccer Hall of Fame inductee Paul Caligiuri

Programming Library for VEX V5

2022 - Present

*KeejLib**100hr total*

- Developed an open source C++ library for VEX V5 robots to simplify complex programming tasks
- Implemented feedback controllers, position tracking algorithms, and hardware abstractions

ADDITIONAL AWARDS & HONORS**First Place Award**

Oct 2022

*IgniteCS Programming Expo**Irvine, CA*

- Independently developed and presented a Differential Drive Robot Simulator featuring 2D-Path Planning, Velocity Profiling, and Path Following
- Presented project to a panel of judges

Certificate of Merit - Violin Level 9

Feb 2023

*Music Teachers' Association of California**Irvine, CA*

- Received State Honor Recognition

REFERENCES**Mrs Lund.** - Head of Robotics, Tustin Unified School District**Dr. George Kirkman** - CEO, Rolling Robots