



ENGINEERING A BRIGHTER FUTURE

TEAM NEWSLETTER



INSIDE THIS ISSUE

CLASH IN THE CANYON
SOCAL SHOWDOWN
TIDAL TUMBLE
RUMBLE IN THE JUNGLE
HARVARD WESTLAKE

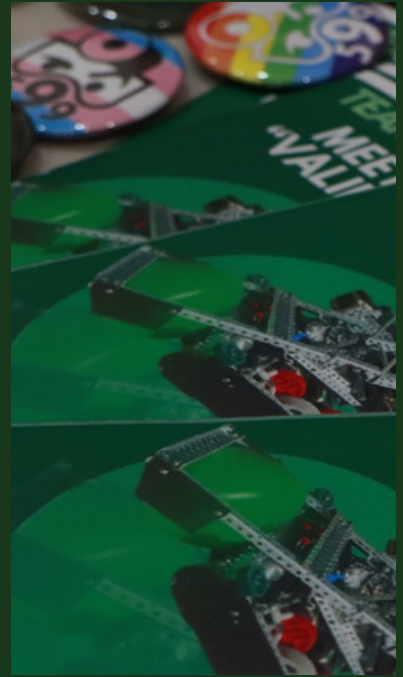
FIFTH ISSUE!

Welcome to our fifth issue for the 2023-2024 school year.

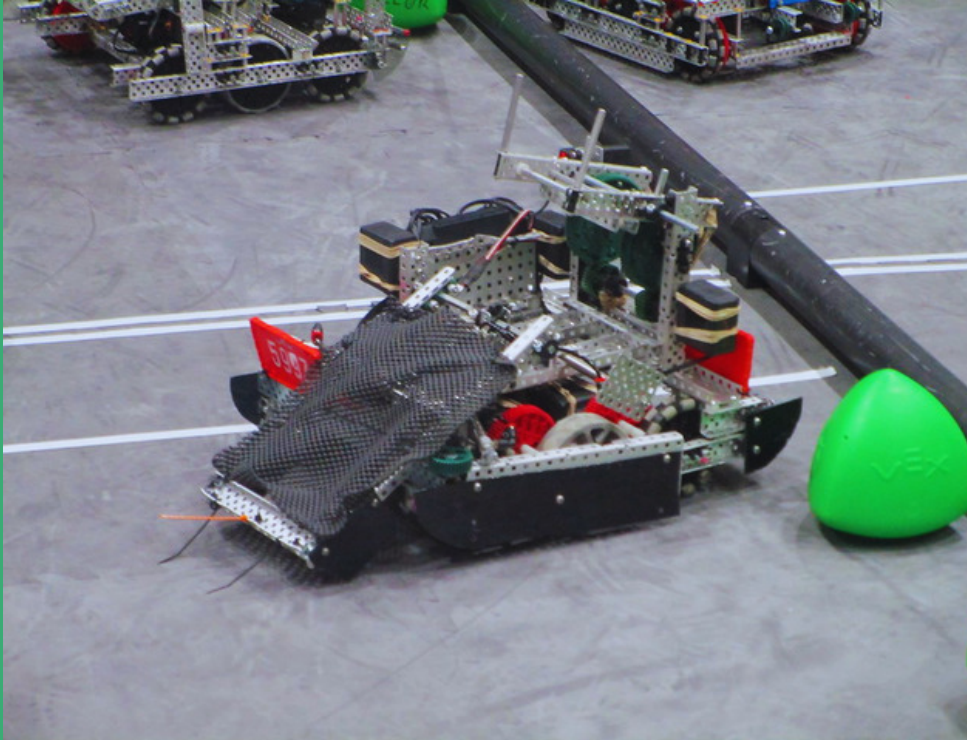


Read all about how our FRC team has been preparing for build-season through off-season competitions and how we performed in our VEX Competitions.

VRC CLASH IN THE CANYON



VRC CLASH IN THE CANYON



Ranking/Awards

The team ranked 12 out of 24 and had a total high score of 142!



ORIGINAL DESIGN

Before the competition our robot had a 4 motor drive base with a central mechanism catapult with pivot arm intake, horizontal wings-pieces of metal that extend outwards used to push multiple triballs at a time, and no climb.

IMPROVEMENTS

The VEX team made many improvements to the robot after this competition by fixing the intake, cutting down the wings, adding a wedge to both sides (a slanted piece of metal used to push the triball over a long bar), flipping the orientation of a catapult to reduce space, fixing the ratchet inside the catapult, redesigning the climb to elevate the robot to another tier, and by fixing the drive base.



FRC OFFSEASON

SOCAL SHOWDOWN



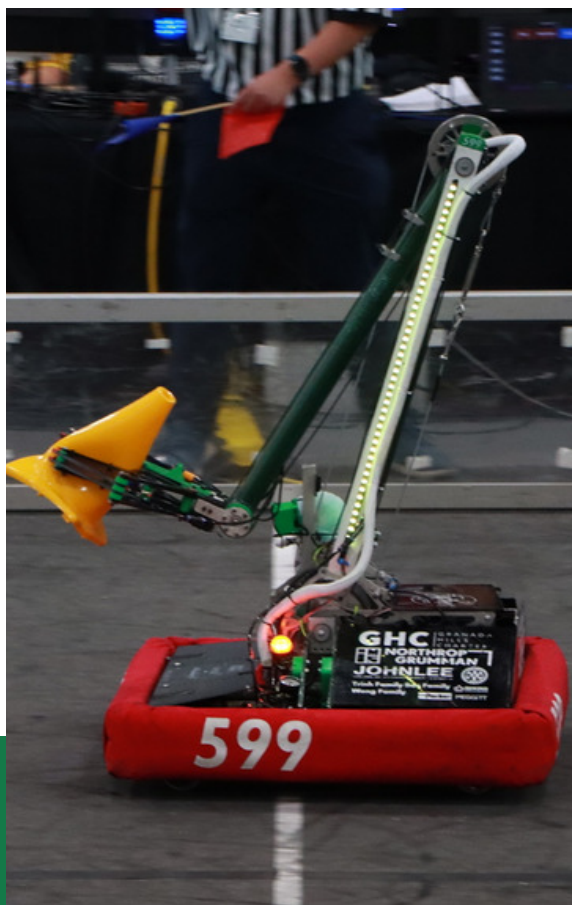
WHO ROCKS, DOX ROCKS

COMPETITION HIGHLIGHT!

We won the Judge's Award and ranked 19 out of 34 at SoCal Showdown. This position motivated us to work harder and to prepare for the following competition at Tidal Tumble.

DURING COMPETITION

During our matches, we noticed that there were a few issues with our robot's arm. It seemed to malfunction at times and didn't function properly during certain matches. Despite this setback, we were still able to perform well and score points thanks to our alliances and the charge station that we had available. Overall, we will address issues with the robot's arm in order to improve our performance at future matches.



EXPERIENCE

Socal Showdown was the first off season competition of our rookies. They were very excited and were able to get a taste of FRC competition before Build season begins. Although many were busy scouting during the event, they all had a lot of fun and enjoyed the exciting mood at Socal.

FRC OFFSEASON

TIDAL TUMBLE



WHO ROCKS, DOX ROCKS

COMP HIGHLIGHT!

This event allowed us to show off the robot that we build during the off season: Barry the Bacteriologist. As the second event during the off season, we were able to improve from our previous mistakes.

GEARING UP FOR TIDAL TUMBLE

BARRY THE BACTERIOLOGIST

Barry the Bacteriologist is the second robot that we have built for the 2023 Charged Up Game. Tidal Tumble is Barry's first competition. With inspiration from some of the best teams that we met at the regional and world's competitions, Barry has the potential to be one of 599's most capable robots. In addition, by helping veterans create Barry, rookies were able to be trained for build season.



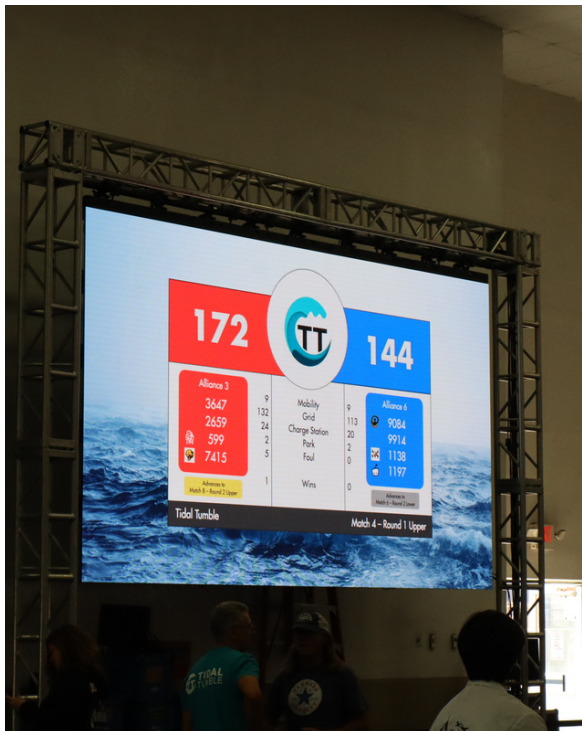
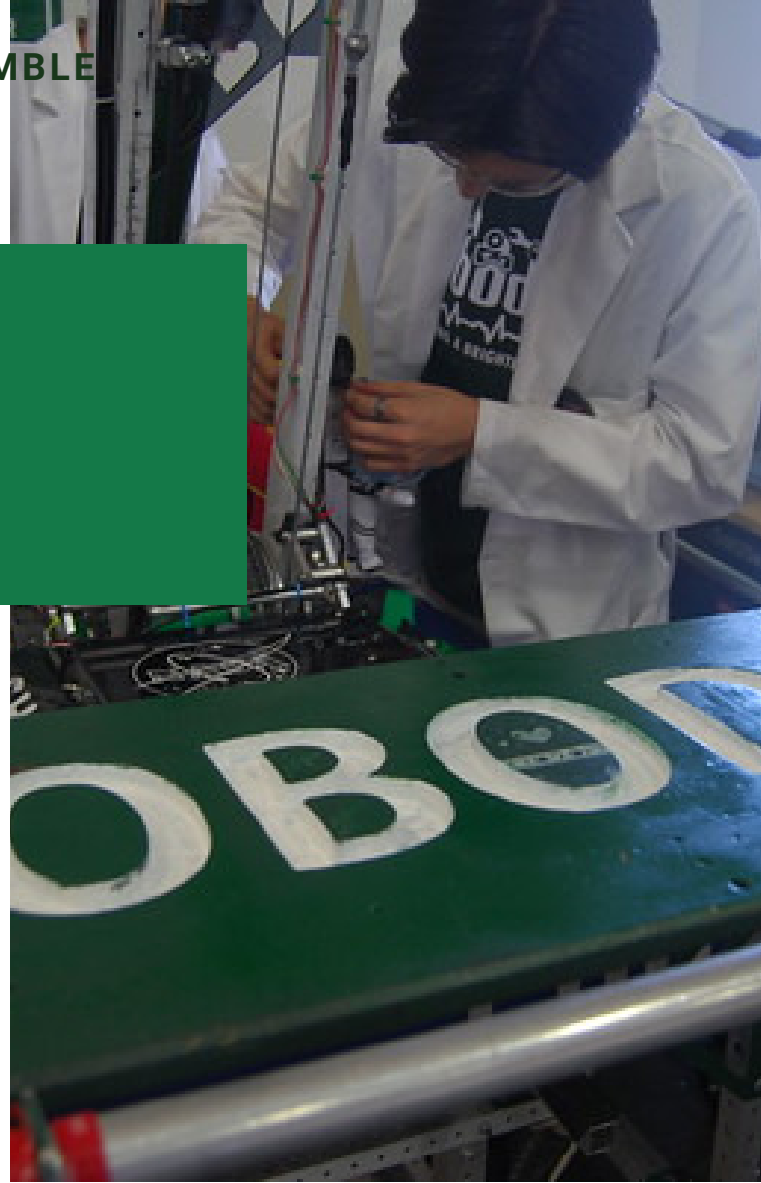
COMPETITION PREPARATIONS

To prepare for Tidal Tumble, our team focused on solving the physical weaknesses of Carter that we observed during SoCal Showdown. This included strengthening the grip of our intake, aiming to have more friction to secure game pieces. Our programming team refined the stow position of our arm, which aided us in avoiding unnecessary contact with other robots. Together, our subteams were able to assess flaws and accurately design solutions to better our robot.

COMPETITION REFLECTION

RANKINGS/RESULTS

After achieving the finalist ranking, members were relieved that we were able to earn an award for our robot's performance. It showed us that when using a robot of high caliber, we could achieve high results, which was motivating for our upcoming season.

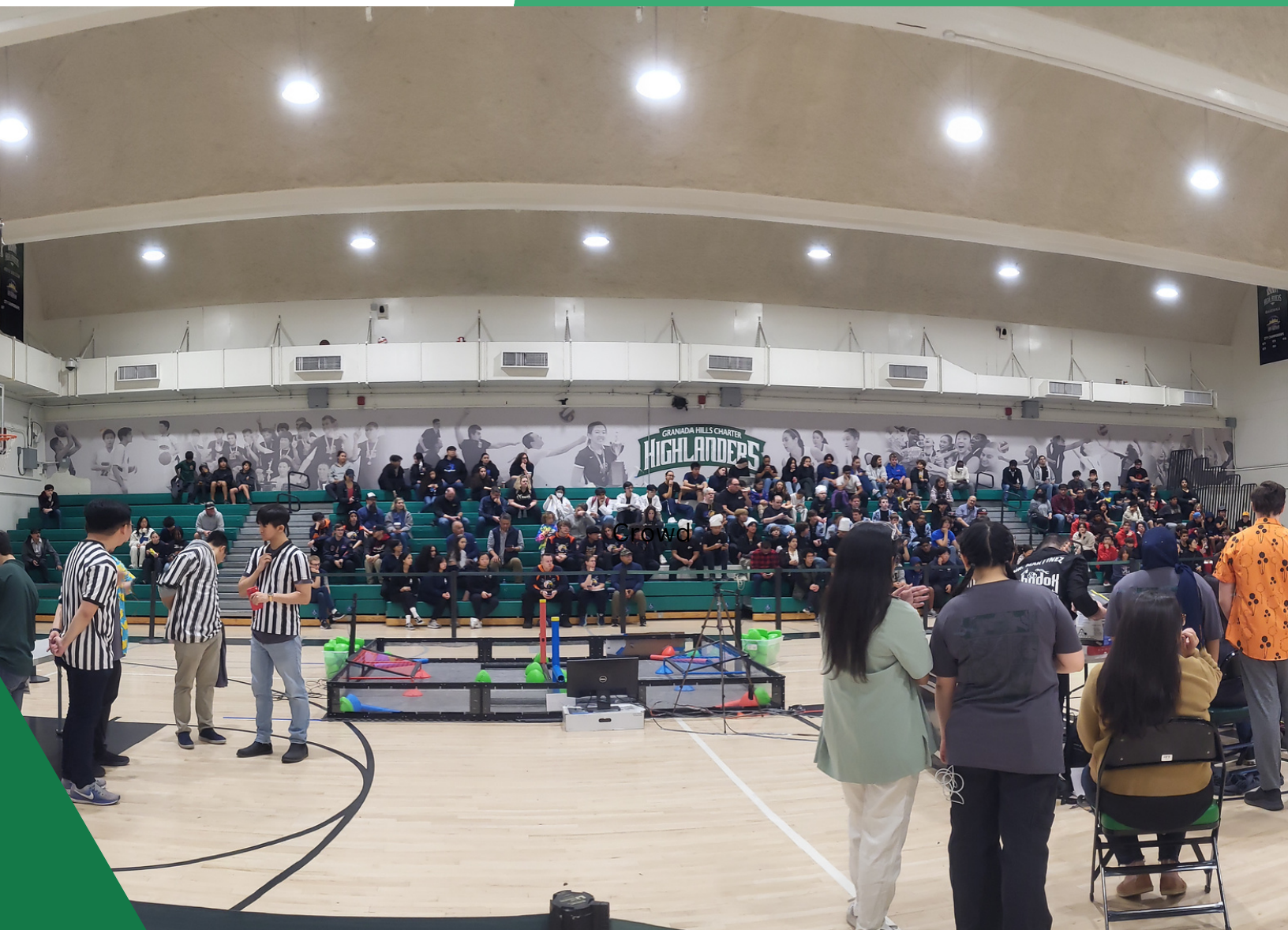


WHAT WE LEARNED

Our team learned about strategy as a whole, and from other teams, we were able to gain an understanding of how to create a strong strategy. Other teams helped us to learn about team structure, how they analyze competition data, and how to cooperate with different types of teams. We were able to take similar-level teams and create an alliance that could compete against world-class teams.

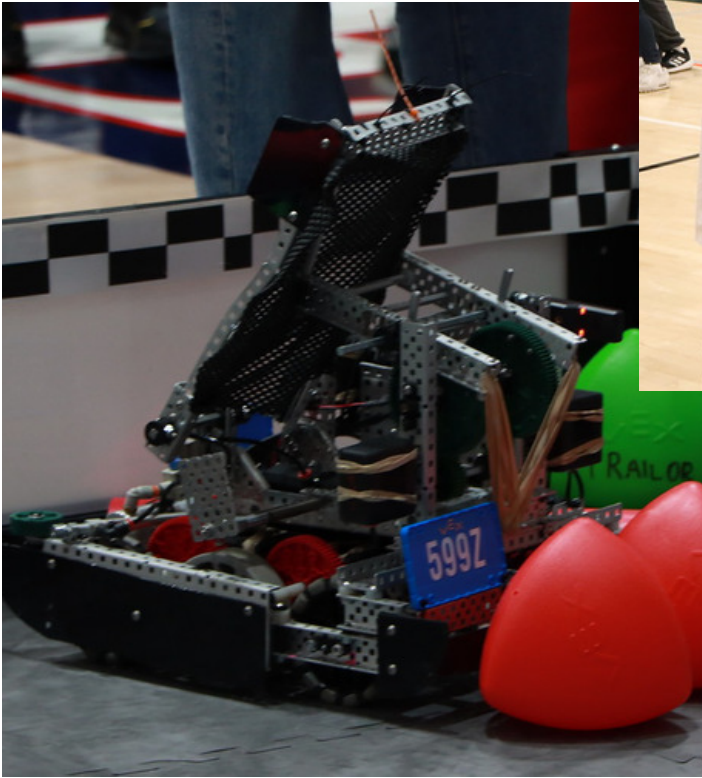
VEX COMPETITIONS

RUMBLE IN THE JUNGLE



RUMBLE IN THE JUNGLE

This is our first year hosting Rumble in the Jungle (VEX comp) since the pandemic. RITJ is a chance for us to promote STEM participation and community bonding. We aim to expose students to STEM opportunities in and outside of robotics so that they may pursue a career that interests them. Many community members also helped to make this event possible by donating and volunteering.



HOME GAME

Preparing for this event has helped students strengthen their administrative skills and prepare for future events. The sub-divisions improved and increased their communication in order to meet the hard deadline. Many rookies were able to shine and support the team through this opportunity.



TEAM AWARDS



STEM

The STEM expo booth showcased various clubs and organizations including JPL, Aerojet Rocketdyne, Parker Meggitt, GHC Rocketry, Code Ninjas, Rotary International, Science Team, Cyberpatriots, and the Red Cross Club.

COMMUNITY

The collaborative effort of all our community members, students, coaches, mentors, and admin made this event possible. Although they were working hard throughout the event, volunteers had a lot of fun. Our President, Angel Yanga won the Volunteer of the Year Award for the leadership she showed in organizing this event. Our assistant coach Niko Gevorgian won mentor of the year award.

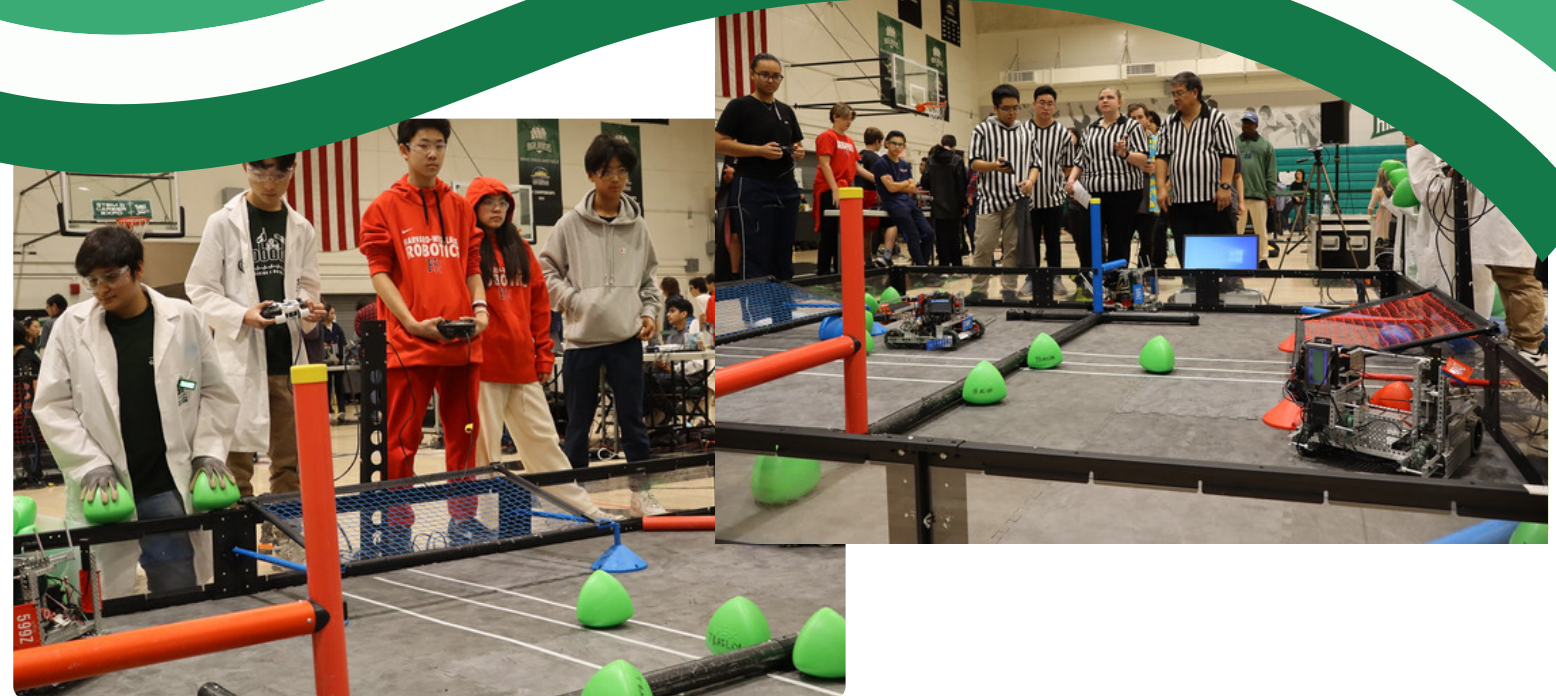


EXCELLENCE AWARD

Team 599Z won the Excellence Award at Rumble in the Jungle. They were in the top 30% in rankings and skills, additionally, they had one of the best notebooks. These notebooks are essential to preserving documentation and showing the obstacles successes that the team faces.



RUMBLE IN THE JUNGLE



VEX COMPETITIONS

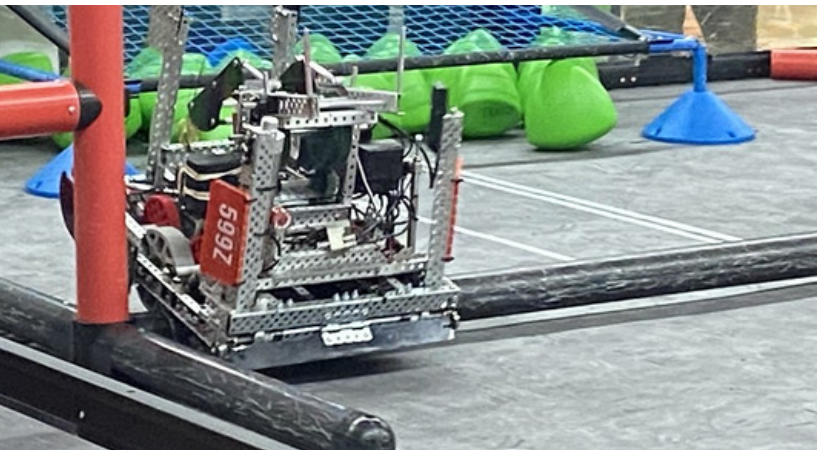
HARVARD WESTLAKE



COMP HIGHLIGHT!

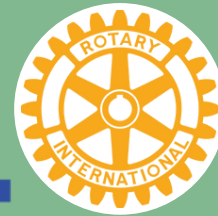
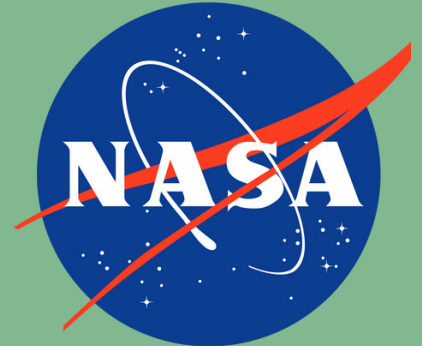
Coming from one of the VEX members at the event, their favorite part of the competition was talking and building connections with other teams during alliances and time in the pits. These connections go much further than in competition only, as it can lead to scrims and alliances during eliminations.

In the previous competition, Rumble in the Jungle, our VEX team faced a problem when game pieces got stuck underneath their robot. To fix this, the team added a belly pan and fixed their intake since it got damaged during the competition. It was remade with the same design with improved bracing. After competing at Harvard Westlake, they placed 20th; despite this low ranking, they were motivated to work harder as it was the sign they needed to adapt their robot and strategy. Looking forward, the VEX team plans to redesign their robot, learning from their past mistakes in order to continuously improve!



The team used Harvard Westlake as an opportunity to better prepare themselves for the states competition. It showed them the other highly skilled teams that they would face in states and gave them practice for interviews. They acquired multiple strategies from other teams and discovered how their new robot needed to adapt and change in order to cooperate with these new strategies. Everyone had a great time at the competition and considered it an amazing and memorable event. This competition gave them the boost they needed to improve themselves so by the time they reached the state regionals in March, they could perform at their best!

SPONSOR SHOUT-OUT!



LOS ANGELES CITY COUNCILMEMBER • DISTRICT 12



ChaCha Saravasi

Trinh Family

Chris Siegert Wong Family