

VEX Robotics Club

- Partnership between the Lake Park Educational Foundation and Robotics Club.
- The goal of the partnership is to grow the robotics program at Lake Park High School, including hosting a robotics tournament at Lake Park High School.
- The Robotics group designs, builds and competes in local robotic competitions using only VEX robotics components.
- Classroom STEM concepts are put to the test as students learn lifelong skills in teamwork, leadership, communication, computer programming and more.
- Tournaments are held year-round at the regional, state, and national levels and culminate at the VEX Robotics World Championship each April!
- Currently 6 students started the club and the club is growing to more than 15 in one year.
- The partnership hopes to connect with sponsors and volunteers in the community. To learn more about the program please scan the link below.

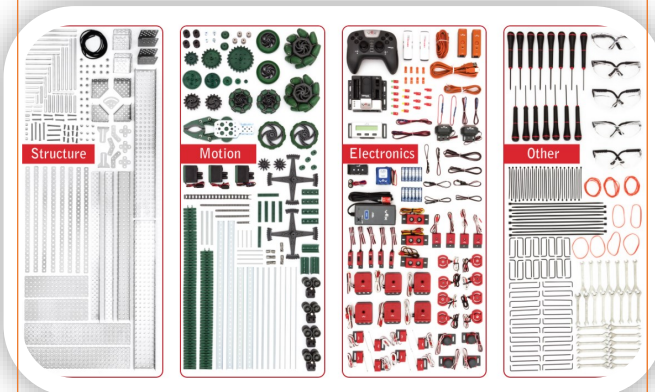


Tournaments

Timothy Christian = 28th place
Niles West = 8th place
Neuqua Valley = 2nd Place
Stevenson HS = 4th Place
State = 22nd place

Awards

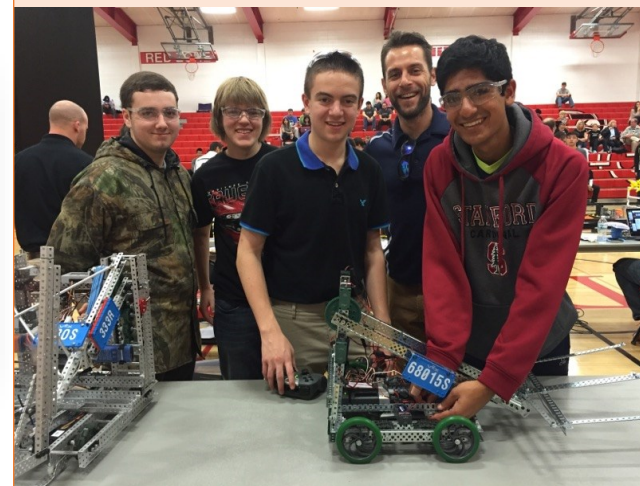
Runner up at Nequa Valley Tournament
Judges Award at State Competition



VEX Components can be viewed at the following website scan the qr code to the right.



Lake Park Educational Foundation and Robotics Club Partnership





2017—2018 VEX Robotics Competition

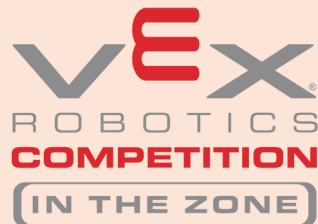
In the Zone

VEX Robotics Competition *In the Zone* is played on a 12'x12' square field configured as seen above. Two alliances – one “red” and one “blue” – composed of two teams each, compete in matches consisting of a fifteen second autonomous period followed by one minute and forty-five seconds of driver-controlled play. The object of the game is to attain a higher score than the opposing Alliance by Stacking Cones on Goals, by Scoring Mobile Goals in Goal Zones, by having the Highest Stacks, and by Parking Robots.

There are eighty (80) Cones that can be Stacked on ten (10) Goals [5 per Alliance] during a Match. Some cones begin in designated locations on the field, while others are available to be entered into the field during the Match. Each Robot (smaller than 18”x18”x18”) begins a match on one of their Alliance Starting Tiles. Each Alliance has three Zones in which they can place their Goals. Alliances earn points for Stacking Cones on Goals, Scoring Mobile Goals in Goal Zones, having the Highest Stacks, and by Parking Robots. A bonus is awarded to the Alliance that has the most total points at the end of the Autonomous Period.



In the Zone Video link just scan QR Code below



Each Cone Stacked on a Goal	2 points
A Mobile Goal Scored in the 5 Point Zone	5 points
A Mobile Goal Scored in the 10 Point Zone	10 points
A Mobile Goal Scored in the 20 Point Zone	20 points
Having the Highest Stack in a Zone	5 points
A Robot that is Parked at the end of the Match	2 points
Alliance with the most points at the end of Autonomous	10 points



Second Place Finish at Neuqua Valley

Goals:

- Winning a regional tournament.
- Winning a state tournament
- Winning a skills competition at state and or a regional competition
- Qualifying for Nationals and World tournaments
- Hosting a tournament
- Increasing awareness of the club and sponsors for the club

Measuring Success:

- Documentation and communication of tournament wins, awards and qualifications with sponsors.
- Developing a tournament at Lake Park High School, many opportunities to volunteer or sponsor the tournament.
- Growing the number of students involved with robotics at Lake Park High School.

To learn more about the partnership and how you can get involved:

- Visit www.lphs.org/Foundation
- Follow us on Facebook (@lphsef) or Twitter (@lphsef)

