

Forest Park Robotics - Team 4303

Application Packet for 2019-2020

The Forest Park Robotics team is a competition based extracurricular activity. Students will work in small teams to design, build and program a robot using the VEX Robotics platform to compete in tournaments against other high school teams. Robotics is a sport for the mind; it blends applied physics, mathematics, programming, prototyping and design, integrated problem solving, teamwork and leadership. Students who are successful in robotics must work well under pressure and work well with others.

Students may apply to the Robotics Team only at the beginning of the school year. As with any team, space and resources are extremely limited and the selection process is highly competitive due to the sheer numbers of students who wish to participate. It is our deep regret that we cannot accommodate all the students who wish to participate in Robotics.

The application is the first step in the process of becoming a member of the team. Tryouts will be held to determine final selection. We do not require any prior robotics knowledge but a willingness to learn. We invite all our prospective Robotics students and their parents to review the information below before they decide to apply for Robotics.

Applications must be turned in by Wednesday, September 11, 2019 to Mr. Longo, room 1157

Tryouts will also be held on Thursday, September 12th from 2-4:15pm pm in room 1157

Important Things to Know About the Program

The Forest Park Robotics Program runs from September through February. Teams advancing to the State Championship will continue through March or advancing to the World Championships will have their season extended through April.

Practices: Tuesdays and Thursdays from 2:00pm-4:30pm. Additional practices will be scheduled as needed.

Competitions: Saturdays from 7:30am-5pm. The competition schedule will be released in the fall.

Team members are required to be in attendance at the competitions, students/families are responsible for travel to and from all events and all food expenses. Not every team will attend every competition; this determination will be made by the coaches based on the team's progress and readiness.

What is Robotics?

In the VEX Robotics Competition, teams of students are tasked with designing and building a robot to compete against other teams from around the world in a game-based engineering challenge. Classroom STEM concepts are put to the test on the playing field as students learn lifelong skills in teamwork, leadership, communications, and more. Tournaments are held at the regional, state, and national levels; local champions go on to compete against the best in the world at the VEX Robotics World Championship each April!

**Students should familiarize themselves with VEX Robotics and this year's challenge,
Tower Takeover: <http://www.vexrobotics.com/vexedr/competition/competition-resources/>**

Required Materials

Activity Fee: \$100 to help cover a portion of the materials used for building the robots and competition fees.

Spirit Wear: All team members are required to purchase a robotics team t-shirt to be worn at all events.

Safety glasses: Students must have their own, they are required for all competitions.

Please contact Mrs. Cinnamon with any questions, or email robotics.fphs@gmail.com.

We look forward to having you as a part of the program.

Student Application Form

Student Information

Name (First Last) _____

Address: _____

Home Phone: _____ Cell Phone: _____

Email: _____

Grade 2019-2020 School Year (Circle One): 9th 10th 11th 12th

Parents/Legal Guardian/Emergency Contacts:

Name: _____

Address: _____

Relationship to Student: _____ Home Phone: _____

Cell Phone: _____ Work Phone: _____

Email: _____

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Name: _____

Address: _____

Relationship to Student: _____ Home Phone: _____

Cell Phone: _____ Work Phone: _____

Email: _____

**What areas of participation on the Robotics team are of the greatest interest to you?
Please indicate 1st through 5th preferences.**

Robot:

- _____ Mechanical
- _____ Design
- _____ Programming
- _____ Engineering Notebook

Business Administration:

- _____ Student Leadership
- _____ Marketing
- _____ Community Outreach
- _____ Event Hosting

Digital Arts:

- _____ Web site
- _____ Online Challenges
- _____ Videography
- _____ Photography
- _____ CAD (Autodesk Inventor)

Competition:

- _____ Drive Team
- _____ Pit Crew
- _____ Scouting
- _____ Team Spirit

Name: _____

Have you participated in VEX or VEX IQ Robotics before? **YES / NO**
If yes, for how many years, what school(s)?

Have you participated in FIRST Robotics (FRC, FTC, FVC, FLL) before? **YES / NO**
If yes, which and for how many years?

Have you or are you taking any AP or Pre-AP courses? **YES / NO**
If yes, which one(s)?

Are you enrolled in the IT or PLTW program? **YES / NO**
If yes, which track or classes?

Are you involved in any other clubs/activities? **YES / NO**
If yes, which one(s)?

Have you ever been suspended / expelled? **YES / NO**
If yes, please explain?

Do you have any conflicts that would prevent you from attending practice on Tuesday or Thursday?
If so, please explain how you will work propose to work around these conflicts.

Why are you interested in participating in robotics this year? What are your goals?

Please explain any previous robotics or programming experience you have. Be as specific as you can, including your past roles and experience.

Explain why you think you would be a good fit for the Forest Park Robotics team and what you would contribute to the team.

Robotics Team Parent/Student Contract

- Attendance at practice is mandatory. Students may be excused with prior arrangements made with their team captain and coaches. Like joining a sports team, robotics requires commitment and discipline and dedication from all involved.
- Students who do miss a practice have no say in decisions made while they were absent.
- Occasionally extended practices or additional workdays will be scheduled as needed to ensure robots are ready for competitions. Details of such events will be posted in advance and discussed at team meetings.
- Students will be expected to maintain ALL grades at no lower than a C, with at least an S in conduct and work habits. Any student with a grade lower than a C, or a conduct/work habits grade of U may be dismissed from the team.
- While attending a robotics meeting, team members must maintain a certain level of work ethic. Low work productivity during time spent at robotics is grounds for removal from the team. If team members find themselves idle while at a meeting, they may either find a useful task or sign out and leave. It is expected that all members utilize their limited time in robotics wisely.
- Team members must show respect to their teammates, coaches, mentors and equipment at all times. Any team member that causes willful destruction to robotics equipment will be dismissed from the team.
- I understand that while Robotics team build sessions are fun, participation requires a high level of mental focus and energy. I will contribute at the highest level even after a long day at school.
- I understand that there are many roles on the team and that I may not have “hands-on” the robot every day, especially during my first year on the team.
- Robotics’ members must wear safety goggles, required at all competitions! The team has a few pairs available as backup, but students must purchase their own pair so they fit and are comfortable.
- Students are not to be using their cell phones during practice except for robotics related activities such as photos, research, and team communication. Excessive texting or playing games is not permitted during robotics.
- Competitions occur at various locations on Saturdays. Students/Parents will need to provide transportation to and from these events. We recognize that students have many obligations; however, students who make the team are expected to attend these events.
- The program will be extended for Teams that qualify for the State and/or World Championships.
 - Virginia State Championship will be held March 6-7 in Doswell, VA
 - World Championships will be held April 22-25, 2020 in Louisville, Kentucky.
- If the team earns a spot to the World Championships, each student is responsible for paying for their trip costs (travel, hotel and food). A reasonable estimate is \$1200 per student. Fundraising may be done to reduce the out of pocket expenses for the trip.
- Activity fees are \$100 per year; this will go towards the registration fees for competitions and materials needed to support the team. Members will also need to purchase a team t-shirt ~\$15 which is required for all events. The activity fees and t-shirt sales will be collected in the fall and are non-refundable if the student leaves the team for any reason.
- Community Outreach is a very important part of the robotics program, as a member you will be asked to:
 - Volunteer at local robotics events.
 - Mentor elementary & middle schools.
 - Complete online challenges.
 - Participate in community outreach.
 - Actively pursue sponsorships & fundraising.

Student Signature _____ **Date:** _____

Parent Signature _____ **Date:** _____

VEX® ROBOTICS COMPETITION EVENT

CONSENT, RELEASE, HOLD HARMLESS

AND AUTHORIZATION TO REPRODUCE PHYSICAL LIKENESS

This is a Consent, Release of Rights, Hold Harmless and Authorization Agreement ("Agreement") between the VEX® Robotics Competition, the Robotics Education and Competition Foundation, Inc., ("REC Foundation"), VEX Robotics, Inc., and officers, directors, employees and Designees of each (collectively, "VEX"), and Participant (collectively referred to herein as "I", "me", "my" and "Participant"). "Designees" includes those persons or entities (including third-parties not affiliated with VEX) managing, contracting, sponsoring, hosting, conducting, evaluating or publicizing (including individuals and third-party entities working with VEX in print, publication, television, broadcast or video media) the VEX Robotics Competition. As used in this Agreement, Participant shall mean any individual, Parent of Guardian of a Participant under 18 years of age, student, mentor, teacher, volunteer, or other person or entity involved in a VEX Robotics Competition event, including, without limitation, the VEX World Championship Event ("Event" or "Events").

In consideration of my participation in one or more Events, I agree to the following:

I recognize that there may be risks associated with attending and/or participating in an Event, including, without limitation, risks inherent in the construction and/or operation of robots, working with electrical connections, operating or handling tools or sharp objects, traveling to and from events, and participating in public competitions. These risks include the risk of injury (including without limitation, serious bodily harm and even death) and property damage. Being fully cognizant of the risks in participating in any such Event, I hereby fully and willingly assume those risks. To the fullest extent permitted by applicable laws, I HEREBY WAIVE ANY CLAIMS OR CAUSES OF ACTION which I may now have or hereafter arises against VEX relating to or connected to my participation in any Event (including, without limitation, the VEX World Championship Event), and I will indemnify and hold harmless VEX against any and all claims against any such entity or person resulting from same.

I HEREBY RELEASE VEX and each of its respective employees, officers, directors, successors, assigns, affiliates, parent companies, licensees and agents from any and all claims, demands, liabilities, damages, costs and expenses, attorneys' fees, other professional fees and expenses, including, without limitation, negligently failing to adequately investigate or screen coaches, mentors, volunteers, etc., any claims for compensation, defamation, or invasion of privacy, or other infringements or violations of personal or property rights of any sort whatsoever that I may now have or hereafter may arise against VEX in connection with my participation in any Event.

In the event I should sustain any injuries or illness while attending and/or participating in an Event, I hereby authorize VEX to administer, or cause to be administered, such first aid or other treatment and such medications as I may possess, as reasonably necessary under the circumstances, including, without limitation, treatment by a physician or hospital of VEX's choice.

Participant understands that photographs, videotapes, and other recordings will be made of participants at such Events, including the Participant.

Participant consents to those photographs, videotapes, and other recordings and the use thereof (i) as part of a record of the

Event and (ii) in promotion of VEX, the REC Foundation and other Events. I further acknowledge that any works made by or for VEX ("Works") to be "works made for hire," under applicable copyright laws, and to the extent I have or may claim any rights in or to such Works, I hereby grant to VEX any and all such rights, including, without limitation, the right to use or sub-license these Works in any and all media, now known or later discovered or developed, and in all forms and for all purposes, including without limitation, advertising and other promotions for any VEX Events, without any further consideration due to me or any limitation whatsoever.

This Release shall be binding upon my heirs, personal representatives, and me. THIS RELEASE SHALL BE GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE STATE OF TEXAS, WITHOUT REGARD TO CONFLICT OF LAWS PRINCIPLES. VENUE

FOR ANY LEGAL ACTION SHALL BE IN HUNT COUNTY, TEXAS. This Agreement constitutes the entire agreement among the parties hereto with respect to the subject matter hereof and supersedes any and all previous agreements among the parties, whether written or oral, with respect to such subject matter.

I UNDERSTAND THAT THIS FORM INVOLVES A RELEASE OF LEGAL RIGHTS.

Signature of Participant if 18 years of age or older or Parent/Guardian if Participant under 18 years

Printed name of person signing

Date

Participant Name (full legal name): _____

If Participant is under 18 years of age, Parent/Guardian (full legal name): _____

Participant Date of Birth if under 18 years of age [MM/DD/YYYY]: _____

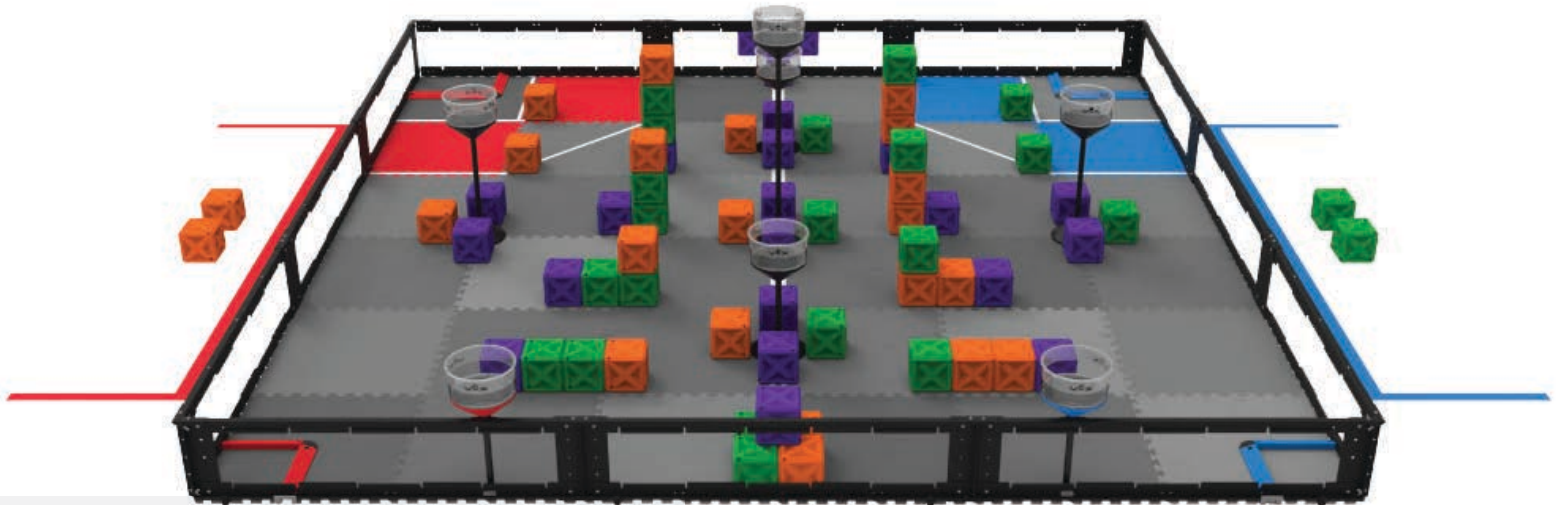
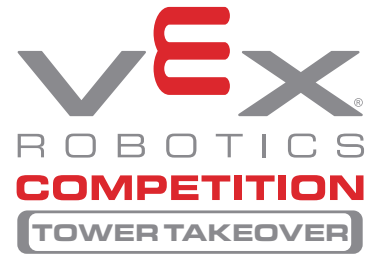
Participant Address: _____

Participant Email (If Participant is under 18 years of age, Parent/Guardian Email): _____

Revised February 7, 2018



GAME DESCRIPTION AND SCORING



GAME

Played on a 12'x12' square field configured as seen above. Two (2) Alliances – one (1) "red" and one (1) "blue" – composed of two (2) Teams each, compete in Matches consisting of fifteen (15) second Autonomous Period, followed by one minute and forty-five second (1:45) Driver Controlled Period.

The object of the game is to attain a higher score than the opposing Alliance by Placing Cubes in Towers and Scoring Cubes in Goal Zones.

22 x



22 x



22 x



DETAILS

There are sixty-six (66) **Cubes**; twenty-two (22) of each color (orange, green, and purple). There are seven (7) **Towers** around the field; five (5) of these can be used by either Alliance, and two (2) are Alliance-specific. Cubes are Scored into four (4) **Goal Zones** (two per Alliance), in the corners of the field.

Each Cube scored in a **Goal Zone** is worth a base of one (1) point. For each Cube of a given color that is Placed into a Tower, the point value for **Cubes** of that color increases by one (1) point.

For example, if there are three (3) green Cubes Placed in Towers at the end of the Match, then all green **Cubes** Scored in **Goal Zones** are worth four (4) points.

The Alliance that scores more points in **Autonomous Period** receives bonus points, as well as receiving 2 purple Cubes, which may be introduced at any time during the **Driver Control** period.

