



# Qualification Tournament

- Welcome to this year's "Robo-CATastrophe" Qualification Tournament.
- First and foremost, we thank our gracious hosts, Columbia High School of Maplewood and the FIRST Tech Challenge Teams of CHS.
- We'd like to thank our volunteers and our teams who are going to make this competition a great one!
  - *"Robo-CATastrophe" began as a Scrimmage two years ago, attended by about a dozen teams.*
  - *Last year, it became a Qualifier with well over 2 dozen teams!*
  - ***This year, the "Robo-CATastrophe" has grown to 36 teams, one of the largest Qualifiers in New Jersey!***

Location: Columbia High School,  
17 Parker Avenue  
Maplewood, NJ 07040

<http://www.somds.k12.nj.us/chs/site/default.asp>

Parking:

- Important Information on the Next Page!

Team Registration: 8am

Event Completes: ~5:30pm



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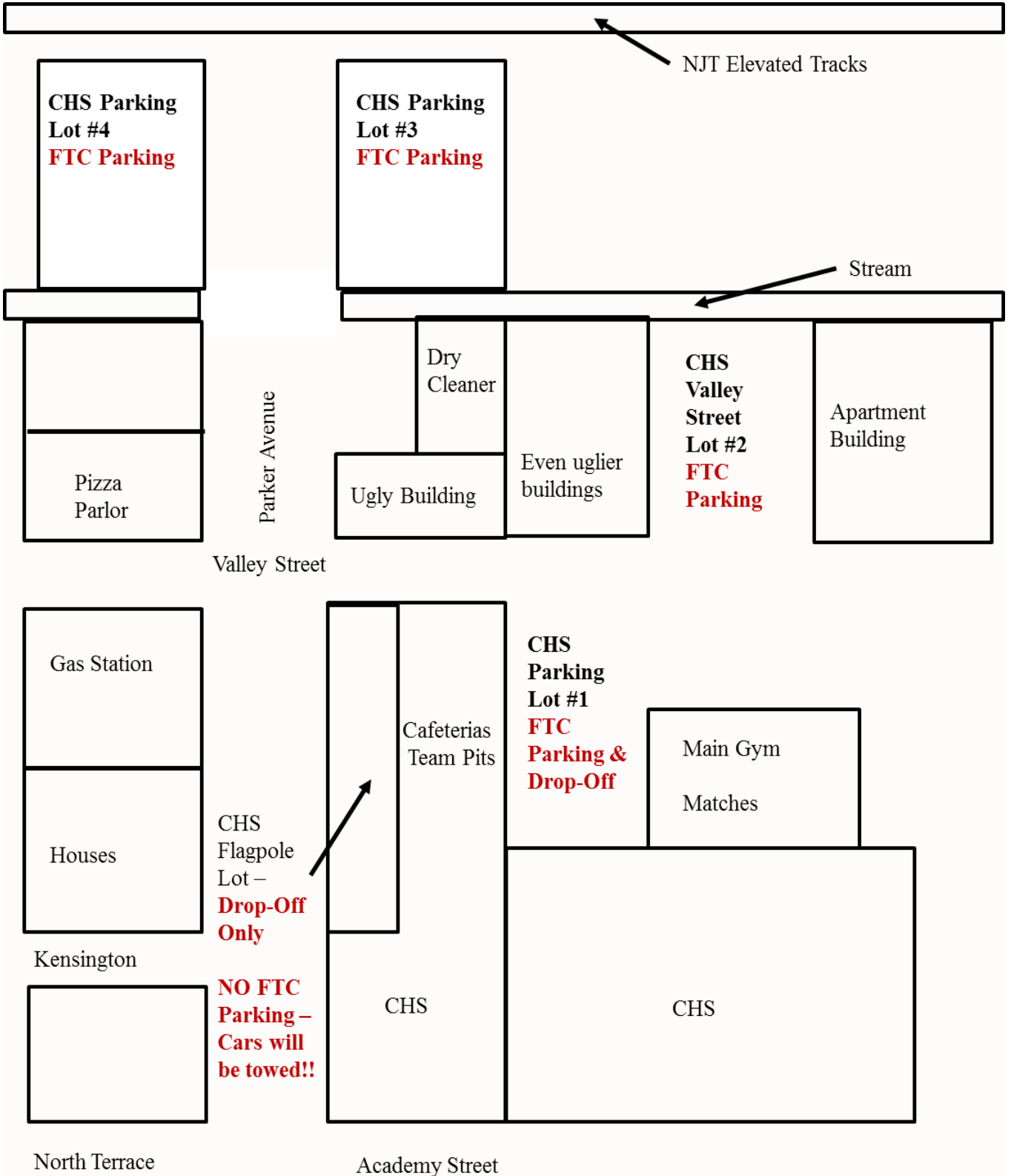
**Arrival:** It is important that all teams arrive on time and report to the check-in table immediately upon arrival. This will allow us to make the match schedule quickly. Please call 862-432-1526 if you are going to be late.

## Parking.

The diagram on the following page shows important parking information. Here's a quick summary:

- For this FTC event, there is parking in 4 lots. This can support a few hundred cars.
- Buses may park in Lots 2, 3 and 4, not Lot 1
- There is no parking in Flagpole Lot. School reserves right to tow cars to make room for theater performance staff and crew.
- Equipment and students can be conveniently dropped off at the Flagpole Lot or Lot 1 (see diagram, next page). All can enter Cafeteria (Pit Area) from both of the lots
- There is no on-street parking for the FTC event. Keep streets empty for community members coming to watch the matches and also the theater performance (which is also taking place on Sunday, November 24<sup>th</sup>).

# PARKING INFORMATION



FTC Teams can park in CHS Lots 1, 2, 3 and 4 – room for a few hundred cars. FTC teams can drop off in Flagpole Lot (but may not park there) or in Lot 1 on Valley Street. Teams can enter cafeteria from both Lots. Matches are held in Gym but there are no team pits are in Gym, all are in cafeteria. CHS has asked for FTC teams to NOT park on streets around school. Cars parked in Flagpole could be towed.

## **36 - “Robo CATastrophe” Teams:**

<b>Team Number</b>	<b>Team Name</b>	<b>School or Organization</b>	<b>Key Contact</b>
207	Critical Mass	Dwight-Englewood School	Marco Pagnotta
247	The Game	Pope John XXIII H.S.	Steve Pendergrast
248	Fatal Error	Pope John XXIII H.S.	Steve Pendergrast
3006	Terabots	Francis Lewis High School	Marlon Anuran
3415	Livingston Lancers	Livingston High School	James Novotny
3774	Hive Voltage	Bayonne High School	Marie Aloia
3983	Highlands Robotics	Northern Highlands	Adam Brunner
4083	Cyber Lions	Mount Saint Mary Academy	Suzanne Granstrand
4102	Columbia Cougars	Columbia High School	Allan Tumolillo
4215	Hypnotic Robotics	River Dell H.S	Ed Houston
4326	Basement Lions	Horace Mann School	Janet Smith
4328	C'est la Vie	Dwight Morrow/	Randy Sherry
4347	NanoGurus	NanoGurus Robotics	Shikha Saxena
4554	Robo Mustangs	Putnam Science Academy	Erkan Cabuk
4890	Hive Voltage 2.0	Bayonne High School	Marie Aloia
5332	Cougar Current	Columbia High School	Allan Tumolillo
5602	Bionic Gaels	Kennedy Catholic High School	Joe Higham
5873	Dragon Terminators	Dragon Terminators	Emmin Shung
5968	Westfield Robotics	Westfield Schools	Sean Bonasera
5996	American Christian	American Christian School	Chris Shultz
6018	Platinum Devils	Seneca/Shawnee Robotics	Chuck DiVincenzo
6110	METS Mechanical Mayhem	METS Charter School	Ann Lezama
6337	Metal Marauders	Independent	Dinesh Jog
6508	Radioactive Raiders	North Brunswick HS	Venkat Shan
6719	PioTech	Pioneer Academy	Ismail Dede
6936	CodeRunners	Golda Och Academy	Arco Jeng
6979	Cyber Sharks	River Dell H.S	Ed Houston
6980	Bad Wolf	River Dell H.S	Ed Houston
7005	Highlands Robotics	Northern Highlands	Adam Brunner
7102	Westfield Robotics 2	Westfield Schools	Sean Bonasera
7213	Royal Challengers	Royal Challengers Robotics Club	Khaja Mohideen
7294	Tesla Pandas	Whippany Park HS	Ron Saad
7311	Terrier Byte Bots I	Newark Tech	Robert Lorenzo
7312	Terrier Byte Bots II	Newark Tech	Robert Lorenzo
7414	PAAAS	Plainfield Academy for the Arts	Daniel Gold
7959	Cougar Cubs	Columbia HS	Allan Tumolillo

## EVENT INFORMATION

**Early Arrival:** If you are a team that is having trouble with your robot, please let us know and please plan to arrive by 7:30. It is our hope to have some veteran team members available to lend a hand.... **BUT remember, this is a Qualification Tournament. You really should arrive with a robot that is ready to compete and that can immediately be submitted for Inspection!**

**Pit Area:** The Pits will be located in the school cafeteria area. It is easy access from the Parking Area and it will be marked. This year, the Competition Area is in the large Gymnasium! (Thanks Columbia!!!) The path the Competition Area will be nicely marked. Give yourself a couple of more minutes to walk to the Queuing Zone. Don't be late for your match!

**NOTE – There are 3 Fields at this event. We are really asking folks to adhere to the “controlled area” limits around the fields. Only the 3-member drive team and involved volunteer should be at the field. Let's make sure that everyone gets a good chance to see the robots in action!**

Please stay within the boundaries of your pit and be kind to your neighbors. If you have large banners, displays, or posters, we can find a space somewhere else in the arena for these items. The Pit Areas should stay clear of obstructions to traffic and NO Team networks are allowed in the Pit.

**Queuing:** Per usual, Queuers will work with adult Lead Queuers to help teams to move from the Pit Area to the Competition Area in time for matches. We will likely queue 1-2 matches ahead and ask that those Drive Teams / Bots standby in Queuing Hold Area (designated at the venue.)

**NOTE – It is the responsibility of the Teams, not the Queuers, to assure that Robots, Drivers and Coaches arrive at their Match on time. Our volunteers are there to assist, not assume responsibility. It is strongly recommended that you assign someone on your team to watch match progress and expedite your Robot to the Queuing Area.**

**Supplies:** Be sure to bring a Utility Strip. Safety Glasses, Battery Chargers (marked with Team Number) and spare parts.

**Opening Ceremony:** At 9:45am, we ask that everyone not actually in the process of being judged, or having their Bot inspected, assemble for the brief Opening Ceremonies. All will resume after the Ceremonies.

**Match Lists:** We are often asked “when will Match Lists be available?”. They will be handed out after Opening Ceremonies. The information will be available sooner if all teams are able to pass inspection earlier.

## **EVENT INFORMATION (continued)**

**Inspection:** Bring your robot to Inspection IMMEDIATELY upon arriving. **This is always THE pacing element in getting the competition started on time. Please help.**

**Robot Marking:** Remember to have your team numbers on the robot in large size, per specification. That sometimes does not happen early in the season. So too, make sure that your robot accommodates the mounting of the Alliance Flag.

**Lunch:** Our host will handle the ordering of food for the event. This means that food orders need to be taken immediately after Team Check In. Please have someone designated to provide this important information to host personnel so that the food order can be called in on time.

- As with all of the NJ events, the food will be very reasonably priced and we ask that teams support our host by purchasing their lunch on site, rather than bringing their own or ordering out.
- If your team members simply have some pocket-money for lunch and snacks (and you coordinate your lunch order submittal by 9am) all will be just fine.

**Gracious Professionalism:** Please act in accordance with the guidelines of Gracious Professionalism. Ungracious behavior directed at referees or event volunteers will not be tolerated and will be grounds for disqualification from the event. Be kind to your referees, fellow teams, and help them as needed.

### **FIRST AID**

Please go to the Pit Administration table for basic First Aid Supplies. Please alert the event organizers if more involved care is required.

### **PIT SAFETY**

Safety expectations and rules at this Qualifier are the same as for all FIRST events. Please refer to the FIRST manual for those standards.

### **GENERAL CONDUCT**

Participants and volunteers are expected to behave with Gracious Professionalism at all times. Any unruly behavior or actions which create safety concerns may result in warnings or ejection from the site at the discretion of the organizers.

Ungracious or threatening behavior directed at referees or event volunteers will not be tolerated and will be grounds for disqualification and ejection from the event.

### **GENERAL SAFETY COMMUNICATIONS**

Please notify an Event Crew member if you have any safety issues or concerns. Please report any illness or injuries to the Pit Administration table or event organizers.



# Competition Schedule

<b>7:00 - 7:30</b>	<b>Arrival Time for Volunteers</b>
<b>7:30</b>	<b>All Volunteers On Site Teams Needing Extra Help Team Registration</b>
<b>8:00</b>	<b>Inspection Stations Open (Hdw &amp; Sfw Insp Begins) Welcome to Teams</b>
<b>8:15</b>	<b>Description of Day's Logistics</b>
<b>8:30</b>	<b>Judged Interviews Begin Drivers Meeting</b>
<b>8:45</b>	<b>followed by Reset Crew Mtg</b>
<b>9:15</b>	<b>Practice Match(es), as possible</b>
<b>9:45</b>	<b>Opening Ceremony</b>
<b>10:00</b>	<b>45 Qualifying Rounds, Total  (36 Teams: 5 Matches Each) [315 Minutes @ 7 Minute Cycle Time]</b>
	<b>Complete ~21 of 40 Rounds</b>
<b>12:30</b>	<b>Lunch</b>
<b>1:00</b>	<b>Finish Qualifying Rounds (~24 Rounds)  [168 Minutes]</b>
<b>3:45</b>	<b>Alliance Selection</b>
<b>4:00</b>	<b>Start SEMI-FINALS 6 Matches Yield 2 Alliances from 4 [48 Minutes]</b>
<b>4:45</b>	<b>Start FINALS 3 Matches Used to Yield the Winning Alliance [24 Minutes]</b>
<b>5:15</b>	<b>Complete FINALS (2 Alliances - One Winning, One Finalist)</b>
<b>5:15</b>	<b>Closing Ceremonies</b>
<b>5:30</b>	<b>Event Complete</b>

# Concurrent Judging Schedule

7:00 - 7:30	Arrival Time for Volunteers	7:00 to 7:30 - Arrival Time for Volunteers
7:30	All Volunteers On Site Teams Needing Extra Help Team Registration	7:30 to 8:00 - Additional On-Site Orientation
8:00	Inspection Stations Open (Hdw & Sfw Insp Begins)	
8:15	Welcome to Teams	Welcome to Teams
8:30	Description of Day's Logistics	Introduction of Judges
8:30	Judged Interviews Begin	8:30 to 10:00 - Judges interview teams.  The intent is for each of six 2-3 person Judging Panels to see 6 teams. The interview should be ~10 minutes, then 5 minutes record notes.
8:45	Drivers Meeting followed by Reset Crew Mtg	
9:15	Practice Match(es), as possible	
9:45	Opening Ceremony	
10:00	45 Qualifying Rounds, Total  (36 Teams: 5 Matches Each) [315 Minutes @ 7 Minute Cycle Time]	
	Complete ~21 of 40 Rounds	10:00 - Judges prepare notes for Initial Identification of Top Contenders.  10:15 - Judges identify their Top Contenders for each of the Awards.
		10:45 to 12:00 - Judges observe Teams in Qualification Matches and in the Pits
12:30	Lunch	12:00 - Start of Deliberations Lunch
1:00	Finish Qualifying Rounds (~24 Rounds)  [168 Minutes]	1:00 to 2:30, Judges can observe final Qualification Matches
3:45	Alliance Selection	2:30 to 3:15 - Final Adjustments to choices, if any
4:00	Start SEMI-FINALS 6 Matches Yield 2 Alliances from 4 [48 Minutes]	3:15 start writing Awards Scripts
4:45	Start FINALS 3 Matches Used to Yield the Winning Alliance [24 Minutes]	4:15 Award Scripts are finished and Judges are prepared for Closing Ceremony
5:15	Complete FINALS (2 Alliances - One Winning, One Finalist)	
5:15	Closing Ceremonies	Closing Ceremonies
5:30	Event Complete	Event Complete



## **JUDGED AWARDS**

**Room Interviews & Judge Panels** – The full set of Judged Awards will be involved at the November 24<sup>th</sup> Qualifier. Interviews with Panels of 2-3 Judges will take place first thing in the morning, while Robot Inspection is taking place. Qualifier Trophies will be handed out at Closing Ceremonies.

**Judged Interview Appointments** – You will be given an appointment with the Judges at the time of Team Check-In. While it is very important to get your robot through Inspection, please give priority to the Judged Interview. Have your robot ready to go, closely review your judged interview time, and work robot inspection around it. Don't keep the Judges waiting!

**New Award: "CONTROL"** - FIRST has introduced a new optional FTC Award this year that recognizes excellence in programming and use of sensors. NJ FTC is embracing this new Award. Our Judges will assess performance during Autonomous Mode, as well as semi-automatic operation during Tele-Op Mode.

## **ADVANCEMENT TO CHAMPIONSHIP**

**Advancement Slots** – Seven teams will be invited to the New Jersey state Championship based on the outcome of this Qualifier. The invitations will be given to the INSPIRE Winner, Winning Alliance Captain, INSPIRE Runner-Up, Winning Alliance 1<sup>st</sup> Pick Partner, INSPIRE 2<sup>nd</sup> Runner-UP, and Winning Alliance 2<sup>nd</sup> Pick Partner, THINK, ....

**Double Qualifying at Robo-CATastrophe** – Should a team be in the Winning Alliance AND one of the INSPIRE award winners noted above, they will single-qualify. At the event, we will use the next advancement criteria (officially published by FIRST) to determine the next advancing team.

**Advancement from QP/RP's** – Many of our teams have been pursuing the 12 Bonus Slots that are available at the end of the year via competition performance at Meets and official NJ FTC competitions. The QP/RP's earned during the five qualification rounds on November 24<sup>th</sup> will count the same as those earned during the five matches at any of our NJ FTC Meets.

It is the twelve teams with the best two outings that advance into the Bonus Slots. (NJ FTC takes the average of the best two outings to establish a team's place within the "NJ FTC Season Standings".) The NJ FTC "Standings", including our out-of-state participants, are shown on [www.NewJerseyFTC.com](http://www.NewJerseyFTC.com)

**Double Qualifying via Qualifier and Meets** – A team which is numerically among the top 12 QP/RP teams for the season AND ALSO earns advancement through a NJ FTC Qualifier will be removed from the top 12 sweepstakes, thereby allowing teams below it to move up in the Standings.

UNITED STATES FOUNDATION FOR THE INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY  
(FIRST®)

**CONSENT AND RELEASE AGREEMENT**

Participant Name: \_\_\_\_\_

If Participant is under 18 years of age, Parent/Guardian 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): \_\_\_\_\_

Participant Team Number: \_\_\_\_\_

The Participant identified above ("Participant") desires to participate (as a team member, coach, mentor, judge, or in some other manner) in the FIRST® Robotics Competition, FIRST Tech Challenge, FIRST LEGO® League, Junior FIRST LEGO League, or another FIRST program (the "Programs"). As a condition of allowing Participant to participate in a Program, United States Foundation for Inspiration and Recognition of Science and Technology ("FIRST") requires that the Participant (by his or her Parent/Guardian if under 18 years of age) agree to the terms of this Consent and Release Agreement.

1. Participant (and the Parent/Guardian of a Participant under 18 years of age) understands that participation in the Program will expose Participant to risks of injury including, without limitation, injury from: building, lifting, and using electrical/mechanical robots and robot components; using tools; other participants; dancing and other associated activities. Participant (and the Parent/Guardian of a Participant under 18 years of age) understands that FIRST does not select, employ, supervise or otherwise exercise authority or control over the coaches, mentors, and other participants in the Program. Participant, if 18 years of age or older, acknowledges and agrees that he/she is primarily responsible for his/her safety. The Parent/Guardian of a Participant under 18 years of age acknowledges and agrees that the Parent/Guardian is primarily responsible for the Participant's safety and that the Parent/Guardian will monitor, as appropriate considering the age of the Participant and other factors, the Participant's participation in the Program.
2. In consideration for FIRST allowing the Participant to participate in a Program, Participant (and the Parent/Guardian of a Participant under 18 years of age for and on behalf of the Participant and the Parent/Guardian) assumes all risk of such participation and hereby releases FIRST and (except as expressly provided below) all of FIRST's directors, officers, employees, volunteers, and agents from any and all claims for any injury of any kind to the Participant (and the Parent/Guardian) or other damages that may occur as a result of the Participant's participation in the Program, including without limitation any injuries or other damages that may be caused by the negligence of FIRST or negligence of any of FIRST's directors, officers, employees, volunteers, or agents (including without limitation negligently failing to adequately investigate or screen coaches, mentors, volunteers, etc.), and agrees not to file any lawsuit or otherwise make any claim against FIRST or any of FIRST's directors, officers, employees, volunteers, or agents for any such injury or other damages. The Participant (and the Parent/Guardian of a Participant under 18 years of age) does not hereby release any claims against any individual person who intentionally causes injury to the Participant.
3. Participant (and the Parent/Guardian of a Participant under 18 years of age) understands that photographs, videotapes, and other recordings will be made of participants in the Programs, including the Participant. Participant (and the Parent/Guardian of a Participant under 18 years of age) consents to those photographs, videotapes, and other recordings and the use thereof (i) as part of a record of the Program and (ii) to promote FIRST and the Programs.

Participant (and the Parent/Guardian of a Participant under 18 years of age) has read this document and understands that this Consent and Release Agreement includes a waiver of the right to make injury claims that is intended to be legally binding. By signing below, Participant (and the Parent/Guardian of a Participant under 18 years of age) agrees to this Consent and Release Agreement.

\_\_\_\_\_  
Signature (of Participant if 18 years of age or older or Parent/Guardian if Participant under 18)

\_\_\_\_\_  
Printed name of person signing

\_\_\_\_\_  
Date