SKYSTONE
PRESENTED BY Qualcomm
FIRST TECH CHALLENGE
FIRST
RISE
Missouri/Kansas Kickoff
2019-2020
Robert Dumler
Ken Pugsley
Jeff Ousley
Jared Fordham
Dan Justice
Jeff Grisham
Rory Smith
Abhinav Tilwar
Glenn Crocker
Robert Crance
Collin Robinett

St. Louis Team

Laura Roth
Susie Mathieu
Tom Mc Govern
Robin Lady
Today’s Agenda

- ROVER RUCKUS Season Highlights
- SKYSTONE Season Overview
- Kickoff Video
- Onsite Game Field Reveal
- Field Element Giveaway
  - one per team w/ RSVP
Numbers From

Events Run
• 36 Meets
• 7 Qualifiers
• 2 Conference Qualifiers
• 1 - 48 team Championship

Teams Served
• 215 Total
• 190 Missouri
• 24 Kansas
• 1 Tennessee (Memphis)
Map of Team Locations
Recognition From

Volunteer of the Year
• Jeff Ousley – FTA

Compass Award Winner
• Christina DeMuri – Team 9099 Ritenour Robohounds

Promote Award Winner
• Team 6507 Cobalt Colts
Dean’s List Finalists

• Katherine Kostecki, 2408 – Shrapnel Sergeants
• Meagan Murry, 7547 – JoeBotics
• Phillipe Realina, 10127 – Tesla’s Knights
• Ethan Voss, 9808 – Team Chargers
Our Inspire Award

Winner
3409 - Astromechs, Kansas City Robotics Foundation

2nd Place
3664 - Girls With Attitude, Chaffee Industrial Arts & Technology

3rd Place
4587 – The Red Hot Techie Peppers, LEARN
Our Advance to Houston

3409 – Astromechs
3664 – Girls with Attitude
4964 – Rolla Patriots
7357 – Team Titanium Tech
10265 - Force Green

3658 – The BOSONS
4587 – Red Hot Techie Peppers
6547 – Cobalt Colts
8461 – Elementary My Dear Botson

NOTE: $2,000 entry fee covered by Missouri grant
Also in Houston

9792 – GSA RoboNERDS
Advanced from Arkansas Championship

288 – Spare Parts
Advanced from FIRST Waitlist (waitlist also available 2019-2020)

NOTE: $2,000 entry fee NOT covered by Missouri grant
Team Titanium Tech (7357) Wowed the Judges in Houston!!

- Collins Aerospace Innovate Award Winners!
- That’s what they won at MO Championship!
Cobalt Colts (6547) Rode to Success in Houston!!

- Members of the Winning Alliance!
- Inspire Award Finalists!
- Got to play the finals on Minute Maid Field!
Now.....2019-2020

JOIN OUR ALLIANCE
How to Know What’s Happening

• Someone has to keep up with all news!
• Coach is automatically receiving news from HQ and MO.
• We are happy to share the MO/KS news with everyone.
• Here are our methods of communication:
  • Our Team Portal Website
  • Our Newsletter
  • Our Social Media
  • MOFTC Scores Website
Our Team Portal Website

www.stlfirst.org/ftc-team-portal

BOOKMARK IT!
KC Team Portal Website
https://www.kcfirst.org/
Our Newsletter

- We use MailChimp. We import the addresses from FIRST registrations.
- Anyone else can subscribe. Sign-up links are available on our website and Facebook pages.
- Please let us know if you haven’t been receiving these emails – some systems block.
- Tuesday Tech Tales is our weekly newsletter. Check your email.
Our Newsletter

KICKOFF IS SATURDAY 9/7/19
DID YOU RSVP YET? WE WANT TO SEE YOU!

We will have 4 live kickoffs:
- St. Louis: 8-30-19 at J.C. Penney Conference Center at UNIS
- Kansas City: 9-1-19 at Business and Technology Campus of MCCC
- Cape Girardeau: 9-30-19 at Stobaugh Polytech Building at SEMO
- Springfield: 9-30-19 in Lay Hall at Drury University

Click on your preferred location for details and to RSVP with approximate counts.

Teams that RSVP take home a FREE t-shirt!

Can't attend a Missouri Kickoff?
Watch FIRSTtv for the live stream now. hosted by OnejayKnight from Qualcomm Headquarters. Show starts at 10:30 a.m. Central.

Missouri FIRST Tech Challenge Newsletter

Email Campaign Archive
From MissouriFIRST Tech Challenge

Email Campaign Archive

- 09/01/2019 - Turnpike Tech Takes Off! 2019
- 08/27/2019 - First Tech Takes
- 08/18/2019 - Welcome to SKYSTONE, Springfield
- 06/06/2019 - End of School Year and Summer News
- 05/08/2019 - ICTC Coach Survey Link
- 03/06/2019 - Plans for State and Post Season Opportunities
- 02/07/2019 - List of FIRST Tech still happening
- 01/23/2019 - Missouri FIRST Tech Challenge Newsletter
- 01/22/2019 - Exposities For Conference Qualifiers to 36 Teams
- 01/25/2019 - Show 2.0, What Happened Next
- 01/15/2019 - Show 2.0, Construction Begins
- 01/10/2019 - FIRST Tech January News
- 12/04/2018 - Event Selection Criteria - Time Sensing
- 10/02/2018 - Round 2 Event Selection Starts at Noon
- 09/20/2018 - Screen shot of event selection
- 09/18/2018 - Field Selection is TODAY

-
Our Social Media

• We are currently on Facebook and Twitter. We love to share postings from teams so let us know you’re out there. We also post other STEM related opportunities we come across.

@stlouisfirst

@FTCMO
Current National Registrations

• Refers to paid/granted $275 FIRST fee from Dashboard
• 126 Missouri Teams Currently Paid
• 21 Kansas Teams Currently Paid
• Thanks to those 147 teams! We’re eagerly watching for more teams. Projected 240 teams this year.
• Please complete your national registration so we can finalize our plans.
MO/KS Registration Fee

- One flat fee of $225
- Entitles team to everything below State Championship
  - 2 Meets
  - 1 Qualifier
  - 1 Conference Qualifier (if you earn advancement)
MO/KS Payment Process

• Open NOW – Link on Team Portal or go to https://commerce.cashnet.com/ftc

• Pay by 9/26 to be eligible for 10/1 Event Selection
Current MO/KS Registrations

• Refers to paid $225 MO/KS fee to STLCC Foundation
• 48 Missouri Teams Currently Paid
• 13 Kansas Teams Currently Paid
• When both National and MO/KS paid, team is added to MOFTCScores.
• You want to pay by 9/26 to be eligible for 10/1 Event Selection.
SKYSTONE Event Structure

- 42 Meets approximately (10/26/19 - 2/1/20)
- 7 Qualifiers (Dec. - Feb.)
- 2 Conference Qualifiers
  - West 2/12/20
  - East 2/19/20
- 1 State Championship – 48 teams (3/7/20)
- FIRST Championship in Houston, TX (4/15-18/20)
About Meets

• Teams can play in any Meet region wide.
• Meets are approx. 4 hour events – no judging, alliance selection or awards.
• Your scores (RP and TBP) from the Meet are used to determine your ranking for advancing to Conference Qualifier (we’ll explain those later).
Host a Meet

• You’ll need:
  • Space for a field and 12 teams.
  • Power to the field and a charging station.
  • Seven trained key volunteers – FTA, Scorekeeper, Inspector and 4 Referees. Training is online.

• What you get:
  • Early choice of 1st meet for each host team
  • Concession stand revenue
  • Play close to home
About Qualifiers

• Full event experience for teams
  • Judging
  • Qualifying rounds
  • Alliance selection
  • Awards ceremony
• Team must compete in a Qualifier for chance to advance to Championship via Conference Qualifier
• ONE Qualifier per team
Registration/MOFTC
Ken Pugsley
Our MOFTCScores Website

http://moftcscores.net/

- Site for Event Selection
- Site for Event Results
- Site for Conference Rankings
- BOOKMARK IT!
### Meets in NE Conf. (19)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2/19</td>
<td>8 am - 12 pm</td>
<td>Boys &amp; Girls Clubs of St. Charles County</td>
</tr>
<tr>
<td>11/2/19</td>
<td>1 pm - 5 pm</td>
<td>Boys &amp; Girls Clubs of St. Charles County</td>
</tr>
<tr>
<td>11/16/19</td>
<td>8 am - 12 pm</td>
<td>Webster Groves High School</td>
</tr>
<tr>
<td>11/16/19</td>
<td>8 am - 12 pm</td>
<td>Girl Scouts of Eastern MO</td>
</tr>
<tr>
<td>11/16/19</td>
<td>1 pm - 5 pm</td>
<td>Girl Scouts of Eastern MO</td>
</tr>
<tr>
<td>11/23/19</td>
<td>8 am - 12 pm</td>
<td>Marquette High School</td>
</tr>
<tr>
<td>11/23/19</td>
<td>1 pm - 5 pm</td>
<td>Marquette High School</td>
</tr>
<tr>
<td>11/23/19</td>
<td>8 am – 12 pm</td>
<td>Pattonville</td>
</tr>
<tr>
<td>12/7/19</td>
<td>10 am - 2 pm</td>
<td>McCluer South-Berkeley High School</td>
</tr>
<tr>
<td>12/7/19</td>
<td>8 am - 12 pm</td>
<td>Webster Groves High School</td>
</tr>
<tr>
<td>12/14/19</td>
<td>10 am - 2 pm</td>
<td>Lutheran High School of St. Charles County</td>
</tr>
<tr>
<td>1/11/20</td>
<td>8 am - 12 pm</td>
<td>SLU Center for Global Citizenship</td>
</tr>
<tr>
<td>1/11/20</td>
<td>1 pm - 5 pm</td>
<td>SLU Center for Global Citizenship</td>
</tr>
<tr>
<td>1/16/20</td>
<td>5 pm - 9 pm</td>
<td>St. Joseph’s Academy</td>
</tr>
<tr>
<td>1/18/20</td>
<td>8 am - 12 pm</td>
<td>Maryville University Donius University Center</td>
</tr>
<tr>
<td>1/18/20</td>
<td>1 pm - 5 pm</td>
<td>Maryville University Donius University Center</td>
</tr>
<tr>
<td>1/18/20</td>
<td>8 am - 12 pm</td>
<td>MICDS</td>
</tr>
<tr>
<td>1/18/20</td>
<td>1 pm - 5 pm</td>
<td>MICDS</td>
</tr>
<tr>
<td>1/25/20</td>
<td>8 am – 12 pm</td>
<td>Pattonville</td>
</tr>
</tbody>
</table>

* Meets are still being finalized. Some additional sites possible.
# Meets in NW Conf. (12)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2/19</td>
<td>8 am - 12 pm</td>
<td>Notre Dame de Sion</td>
</tr>
<tr>
<td>11/2/19</td>
<td>1 pm - 5 pm</td>
<td>Notre Dame de Sion</td>
</tr>
<tr>
<td>11/9/19</td>
<td>8 am - 12 pm</td>
<td>Heritage Christian</td>
</tr>
<tr>
<td>11/9/19</td>
<td>1 pm - 5 pm</td>
<td>Heritage Christian</td>
</tr>
<tr>
<td>11/16/19</td>
<td>8 am - 12 pm</td>
<td>Center High</td>
</tr>
<tr>
<td>11/16/19</td>
<td>1 pm - 5 pm</td>
<td>Center High</td>
</tr>
<tr>
<td>12/7/19</td>
<td>8 am - 12 pm</td>
<td>KC Engineering Zone</td>
</tr>
<tr>
<td>12/7/19</td>
<td>1 pm - 5 pm</td>
<td>KC Engineering Zone</td>
</tr>
<tr>
<td>1/18/20</td>
<td>8 am - 12 pm</td>
<td>St. Teresa</td>
</tr>
<tr>
<td>1/18/20</td>
<td>1 pm - 5 pm</td>
<td>St. Teresa</td>
</tr>
<tr>
<td>1/25/20</td>
<td>8 am - 12 pm</td>
<td>Lee's Summit High</td>
</tr>
<tr>
<td>1/25/20</td>
<td>1 pm - 5 pm</td>
<td>Lee's Summit High</td>
</tr>
</tbody>
</table>
Meets in Southern Conf.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/9/19</td>
<td>10 am - 2 pm</td>
<td>Jackson High School</td>
</tr>
<tr>
<td>11/23/19</td>
<td>10 am - 2 pm</td>
<td>Poplar Bluff High School</td>
</tr>
<tr>
<td>12/14/19</td>
<td>8 am - 12 pm</td>
<td>Notre Dame Cape</td>
</tr>
<tr>
<td>12/14/19</td>
<td>1 pm - 5 pm</td>
<td>Notre Dame Cape</td>
</tr>
<tr>
<td>1/25/20</td>
<td>10 am - 2 pm</td>
<td>Wyman Elementary</td>
</tr>
<tr>
<td>TBD</td>
<td>TBD</td>
<td>This could be you!</td>
</tr>
</tbody>
</table>

SE – 5 sites – need at least 6

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/23/19</td>
<td>10 am - 2 pm</td>
<td>Kickapoo High School</td>
</tr>
<tr>
<td>1/11/20</td>
<td>10 am - 2 pm</td>
<td>Lake Christian Academy</td>
</tr>
<tr>
<td>TBD</td>
<td>10 am - 2 pm</td>
<td>Morgan Co. R-1 School District</td>
</tr>
<tr>
<td>1/18/20</td>
<td>10 am - 2 pm</td>
<td>Monett Middle School</td>
</tr>
<tr>
<td>TBD</td>
<td>TBD</td>
<td>This could be you!</td>
</tr>
<tr>
<td>TBD</td>
<td>TBD</td>
<td>This could be you!</td>
</tr>
</tbody>
</table>

SW – 4 sites – need at least 6

Please sign up to host a Meet. Link is on Team Portal.
## Scheduled Qualifiers

<table>
<thead>
<tr>
<th>Qualifiers</th>
<th>Location</th>
<th>Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLU Qualifier</td>
<td>St. Louis University - Center for Global Citizenship, St. Louis, Missouri</td>
<td>December 07, 2019</td>
<td>Scheduled</td>
</tr>
<tr>
<td>Pleasant Lea Qualifier</td>
<td>Pleasant Lea Middle School, Lee's Summit, Missouri</td>
<td>December 14, 2019</td>
<td>Scheduled</td>
</tr>
<tr>
<td>STLCC - Flo Valley Qualifier</td>
<td>STLCC - Florissant Valley, St. Louis, Missouri</td>
<td>January 11, 2020</td>
<td>Scheduled</td>
</tr>
<tr>
<td>Yeokum Qualifier</td>
<td>Yeokum Center of Innovation, Belton, Missouri</td>
<td>January 11, 2020</td>
<td>Scheduled</td>
</tr>
<tr>
<td>SEMO Qualifier</td>
<td>SEMO - Student Recreation Center, Cape Girardeau, Missouri</td>
<td>January 18, 2020</td>
<td>Scheduled</td>
</tr>
<tr>
<td>Drury Qualifier</td>
<td>Drury University - Weiser Gym, Springfield, Missouri</td>
<td>January 25, 2020</td>
<td>Scheduled</td>
</tr>
<tr>
<td>Oakville Qualifier</td>
<td>Oakville High School, Oakville Township, Missouri</td>
<td>February 01, 2020</td>
<td>Scheduled</td>
</tr>
</tbody>
</table>
Event Selection Prep

• Pay National and MO/KS Registration by Sept 26th for Round 1 access. Later payment means later selection and less choices.
• Determine dates/locations the team can attend.
• Have alternate choices prepared in case events are already closed (sold out).
• You select Qualifier and Meets.
• You **earn** Conference Qualifier advancement.
• You **earn** Championship advancement.
Event Selection Process

Round 1 - opens at 12 noon on Tues., Oct. 1st.

- Pick 1 Qualifier
- Pick a Meet
- If you can’t pick it, it’s FULL – things fill FIRST COME FIRST SERVED

Round 2 - opens at 12 noon on Tues., Oct. 8th.

- Pick a Meet

Time for Demo… [http://moftcscores.net/registration](http://moftcscores.net/registration)
NOTE: You must play in a Qualifier and 1 Meet to be eligible for the Conference Qualifier
NOTE: You must play in a Qualifier and 1 Meet to be eligible for the Conference Qualifier

TENTATIVE
Will be finalized after registration
http://moftcscores.net/
Conference Qualifiers

• Conference Qualifiers will be 36 team events.
• There will be one on the West side (NW and SW) and one on the East side (NE and SE).
• 18 slots will be divided between the N/S Conferences based on team density to the conference qualifier. (set Oct. 1st)
• 18 Wild Card slots are filled from the respective Con Qual ranking list. Highest ranked regardless of North or South within a Conf.
Advancements to State

- Data correct as of Kickoff, any possible changes will be communicated prior to Event Selection.
- Advancements are based on the size of the Qualifier, not attendance or registration.
- Conference Qualifier advancement numbers will be set after Oct. 1 based on team registration.

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Team Capacity</th>
<th>Advancing to State</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Louis University Qualifier</td>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>Pleasant Lea Middle Qualifier</td>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>STLCC-Florissant Valley Qualifier</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>Pirates Qualifier</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>Southeast Missouri State University Qualifier</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>Drury University Qualifier</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>Oakville Qualifier</td>
<td>36</td>
<td>5</td>
</tr>
<tr>
<td>West Conference Qualifier</td>
<td>36</td>
<td>TBD</td>
</tr>
<tr>
<td>East Conference Qualifier</td>
<td>36</td>
<td>TBD</td>
</tr>
</tbody>
</table>
MO State Championship

- This is an earned advancement
- March 7, 2020
- Missouri S&T, Rolla, MO
- $150 entry fee (KCStem will pay entry fee)
- 48 team, dual division competition
- Judging for Promote and Compass
- Dean’s List Finalists Announced
**FIRST Championship in Houston**

- We have **10** slots for teams to advance from our MO Championship.
- **FIRST** Championship in Houston is April 15-18, 2020.
- Entry fee is $2,000.
- MO/KS Planning Committee has secured grants to cover entry fees for all **10** teams advancing from our Championship.
- HQ will have a Waitlist. MO/KS does not cover Waitlist team expenses. Keep this in mind when applying.
What About Weather?

• Sites determine if they will cancel based on local weather conditions. If you are travelling, you must decide if it’s safe.

• Every Meet host can reschedule at their discretion.
  • If you can’t attend, other Meet score is doubled.

• If only one Qualifier is cancelled in West, backup date is 2/1/20.

• If only one Qualifier is cancelled in East, backup date is 2/8/20.

• If more than one Qualifier is cancelled, alternate procedures are under development.
Senior Mentor
Bob Crance
• **FIRST Senior Mentor (FSM)**
  - Focus on recruiting, supporting and expanding all four FIRST programs
  - Support existing teams, mentors, and coaches
  - Identify and recruit volunteers, mentors, and coaches

• **My Goals**
  - Promote team sustainability within and across programs
  - Understand Team’s personalities
  - Connect team needs with available resources, college scholarships
  - Encourage team participation in all awards

Bob Crance
bcrance@firstinspires.org
816-223-2125
Judge Advisor
Jared Fordham
Judging

• Importance of Awards
• What is the process?
• Team Awards
• Individual Awards

• Scholarships
• Where do I learn more?
• Training Preview
Why?

- You design
- You build
- You connect
- You program
- You learn
- You share
- You play

- It hurts
- It’s stressful
- It’s fun
- It’s easy
- It’s not

• **It’s more than robots**

Judges listen to your story

FIRST Tech Challenge Awards are for recognizing your results
Process

Team Interview!
- 2-3 Judges
- 20 Minutes
- Robot
- Prepared Remarks

The Notebook!
- Engineering Section
- Business Plan
- Strategic Plan

Control Submission
# Awards

<table>
<thead>
<tr>
<th>Team</th>
<th>Individual</th>
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</thead>
<tbody>
<tr>
<td>Inspire Award</td>
<td>FIRST Dean’s List</td>
</tr>
<tr>
<td>Think Award</td>
<td>Promote Award</td>
</tr>
<tr>
<td>Connect Award</td>
<td>Compass Award</td>
</tr>
<tr>
<td>Collins Aerospace Innovate Award</td>
<td></td>
</tr>
<tr>
<td>Design Award</td>
<td></td>
</tr>
<tr>
<td>Motivate Award</td>
<td></td>
</tr>
<tr>
<td>Control Award by ARM</td>
<td></td>
</tr>
<tr>
<td>Judges Award (Optional)</td>
<td></td>
</tr>
</tbody>
</table>

**Gracious Professionalism ®**

**Notebook**

**Robot**

**Community**
Cash for College!

Apply

More

Read The Docs

Training

Sep 21
@ KC EZ

• Why didn’t we win?
• Engineering Notebook
• Dean’s List
• Inspire
Lead Referee
Collin Robinett
Ruling Updates
- Most current rules will come from the blog updates, then Team Updates, then the Game Manual.

Score review after matches
- Using tablets
- Clear up any questions about scoring before teams leave the field
- Could lead to cycle time increases if not done quickly
• Correct Player Station
  • Tables in Player Stations will be clearly marked with Red/Blue 1 or 2.
  • Teams need to stand by their assigned station on the schedule, regardless of robot placement.

• Human Player
  • There will be one extra person PER ALLIANCE that will interact with the field
  • Alliances will have to pick their Human Player before the match.
  • No decision defaults to Red 1 and Blue 1
  • We can talk about Human Player locations on the field during the Game Reveal
Referee

• Alliance Marker, Rule <RG06>
  • Each team must include a **team supplied** Alliance Marker on their robot on the same sides as the Team Numbers (two opposite sides, 180 degrees apart)
  • Must be removable in order to swap between matches
  • **Red 2.5” Square** or **Blue 2.5” diameter Circle**
Lead Robot Inspection
Abhinav Tilwar
Robot Inspection

- **Self Inspection – Game Manual One**
  - Teams must complete self-inspection of their Robot and submit the completed Robot Inspection forms to the Robot Inspectors.
  - Teams should ensure that their Robot is made up of legal parts.
  - Re-inspect the Robot after making mechanical changes – *Reference 8.4 Inspection rules* <I1> and <I4>

- **Common Mistakes**
  - Know your robot – Confidence and knowledge about robot components
  - Wires should be properly tied to avoid unnecessary risk of entanglement - *Reference 8.4 Inspection rules* <RE14>
  - Being aware of the weight and size requirements of the robot
Robot Inspection

• **Changes**
  • Alliance flag are no longer be in use during the match – Replaced by Alliance marker - *Reference 8.4 Inspection rules <RG06>*
  • Team numbers must be visible
  • Battery Mount - Batteries must be securely attached to the Robot in a location where they will not make direct contact with other Robots or the Playing Field - *Reference 8.4 Inspection rules <RE02>*
  • Three phones will be phased out next season
  • Modern Robotics Control Module will be phased out
  • A new Rev Control Hub being piloted but can NOT be used in competition in our region
Lead FTA
Jeff Ousley
FTA

• Assistance through out the season
  • Contact Phil via email and we will get you the support you need

• Assistance at an event
  • As soon as possible let us know you have a problem

• Programming support
  • Tesla’s Knight class for rookie teams – Sept 14
  • Training day – September 21
  • Programming Classes – October 19
Grants

• Check out all the grants we know about on the STLFIRST website FTC Team Portal.
• KC STEM deadline is 9/11/19.
• REV Robotics deadline is 9/30/19.
• Don’t miss an opportunity!
Volunteering

• Judge at competition you are not attending.
• Volunteer in a role at a competition you are attending.
• Provide a volunteer for a Meet (playing at or not).
• Get friends, neighbors and sponsors involved.
• Volunteer from your FIRST dashboard.
Game Manual 1

- Self-Inspection forms – required in MO/KS this year
- Weight – no more than 42 pounds (plan accordingly)
- Numbers – regulation size and position
- Power Switch – accessible and legal type
- Alliance Marker – NEW this year
  - Red square 2.5 in x 2.5 in
  - Blue circle 2.5 in diameter
  - No FLAGS
- Human Player – NEW this year
Closing Thoughts

- Our website [www.stlfirst.org/ftc-team-portal](http://www.stlfirst.org/ftc-team-portal)
- FIRST website [http://www.firstinspires.org/robotics/ftc](http://www.firstinspires.org/robotics/ftc)
- YouTube [https://www.youtube.com/user/FIRSTTechChallenge](https://www.youtube.com/user/FIRSTTechChallenge)

Contact Us at [FTC@stlfirst.org](mailto:FTC@stlfirst.org)

Thank you for being part of the MO/KS FIRST Community!