

Pennsylvania



2017-2018 Season Kickoff

Welcome!



Agenda

- Pennsylvania FIRST Tech Challenge Season Schedule
- Awards and Advancement
- Qualifier Registration
- Invoices, Payment Options and Due Dates
- Youth Protection in Pennsylvania
- Consent and Release Forms
- Coaches Calls
- Team Resources
- Judging
- Robot Update
- Programming Update
- Game Reveal!

Pennsylvania FTC Season Schedule



<http://www.ftcpenn.org/ftc-events/2017-2018-season>

Pennsylvania FIRST Tech Challenge
Powered by Pennsylvania FIRST Robotics

[Home](#) [Event Registration](#) **[FTC Events](#)** [Team](#)

2017-2018 Season

The The 2017-2018 game is called F/R/S
See <http://www.firstinspires.org/resource>

Pennsylvania FIRST Tech Challenge Events
Pennsylvania FIRST Tech Challenge events for the 2017-2018 season. Qualifying To calendar of events contains Pennsylvania FIRST Robotics hosted events and select Robotics hosted events.
New - add an event to your calendar. Click on the iCal link to download an iCalendar
Register for the events below will open in August Registration for

Date	Event Type	Event Name
<small>Click on event name for event details we</small>		
September 2017		
Saturday Sept 9	Kickoff Register Now!	Pennsylvania FTC Season Kickoff iCal-Philadelphia iCal-East iCal-Central iCal-South
Wednesday Sept 13	Coaches Call Register Now!	Coaches Call #1 7:30 PM Go to Meeting

Full lineup of Workshops, Scrimmages and Qualifiers

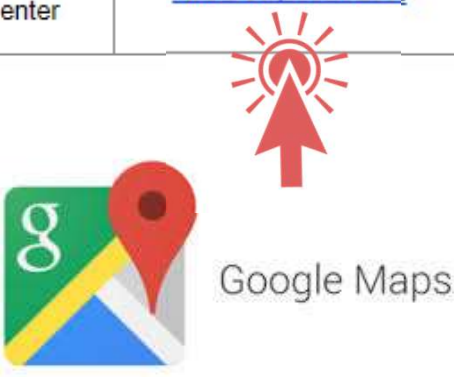
November 2017				
Saturday Nov 4 iCal	Scrimmage Register Now!	Ramp Riot Scrimmage Ramp Riot - FRC Off-Season Competition	Wissahickon High School Lower Cafeteria	521 Houston Rd Ambler, PA 19002
Saturday Nov 11 iCal	Scrimmage Register Now!	The Oxford Open	Oxford Area High School Gymnasium	705 Waterway Rd Oxford, PA 19363
Saturday Nov 18 iCal	Qualifying Tournament	Eastern Pennsylvania Regional Qualifying Tournament	Montgomery County Community College Physical Education Center	340 DeKalb Pike Blue Bell, PA 19422



Add Event to your Calendar



Full Event Details



Find your way

Awards and Advancement



Awards and Advancement Updates in Game Manual Part 1

7.2 Eligibility for Judged Awards

Teams are eligible to be considered for all Judged Awards except the Inspire Award ... at any one of the first three events they participate in at each of the following levels.

- League Tournament • Qualifying Tournament • Super Qualifying Tournament • Championship Tournament

7.2.1 Inspire Award Eligibility

Teams that have won the Inspire Award at another event of the same level, regardless of the region, cannot be considered for the Inspire Award or as an Inspire Award Finalist at additional events at that level.

7.3 Eligibility for Advancement

Teams are eligible for advancement at any one of the first three events they participate in at any of the following levels, regardless of the region.

- League Tournament • Qualifying Tournament • Super Qualifying Tournament • Championship Tournament

Award and advancement opportunities now consider events participated in across all states and regions

Qualifier Registration



Pennsylvania Teams

Qualifiers

- 1st Preference > Registered List
assuming space available
- 2nd Preference > 2nd Priority Waitlist
- 3rd Preference > 3rd Priority Waitlist
- ... and so on

Out of State Teams

Qualifiers

- *Offset is TWO*
- 1st Preference > 3rd Priority Waitlist
- 2nd Preference > 4rd Priority Waitlist
- 3rd Preference > 5th Priority Waitlist
- ... and so on

***Registration
for Qualifiers
opens this
evening!***

Same as Last Season

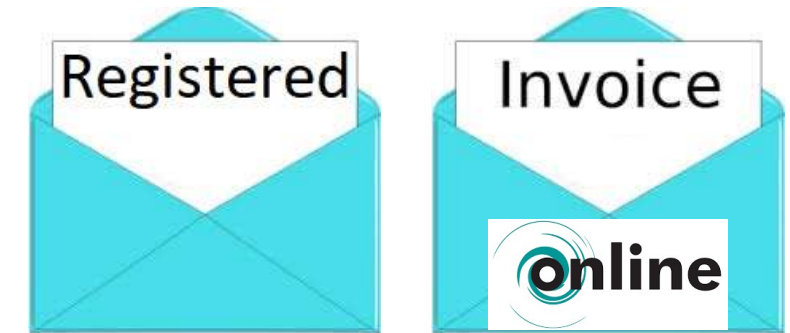
Qualifier Preferences, Registered Lists and Wait Lists

When registering for Qualifiers, consider award and advancement changes if you plan to compete in other states or regions

Invoices and Receipts

<http://www.ftcpenn.org/event-registration>

- Invoices
 - Invoices are now online
 - Two emails when team added to Registered List
 - Registration confirmation email
 - Invoice email that contains link to invoice
 - View, download, or print your invoice
 - Option to pay directly online
- Receipts
 - Invoice marked paid once payment is processed
 - This paid invoice is your receipt
 - Email with link to paid invoice sent



Invoices now online. Paid invoice is your receipt.

Payment Options and Due Dates



<http://www.ftcpenn.org/event-registration>

- Payment Options
 - Check, credit card, debit card, and ACH bank transfer
- Payment Due Date
 - Three (3) weeks after date of registration confirmation email or two (2) weeks before event date, whichever is earlier
 - If payment is not received by due date, team is automatically removed from Registered List and slot offered to next eligible team
- 2017-2018 Rates
 - Qualifiers, including Philadelphia Qualifier: \$125
 - State Championship: \$275
 - Online payment convenience fee waived



***Credit cards now accepted for payment.
Fee due 3 weeks after team is registered for event.***

Youth Protection in Pennsylvania



<http://www.ftcpenn.org/volunteer/youth-protection>



[Home](#) [Event Registration](#) [FTC Events](#) [Teams](#) [Photos](#) [Email Archive](#) **[Volunteer](#)** [About Us](#)

[Volunteer](#) >

Youth Protection

Pennsylvania FIRST Robotics strives to provide a safe environment for students at our events. As part of this effort, volunteers and adults affiliated with a Team to follow Pennsylvania laws and FIRST's policies.

Pennsylvania Child Protection Services Laws

In 2014 and 2015 the Pennsylvania legislature updated the [Child Protection Services Law](#) changing how Pennsylvania responds to child abuse. These changes affect the reporting, investigation, assessment, prosecution and judicial handling of child abuse and neglect cases. Beginning August 25, 2015, many adult volunteers required to obtain background checks, including the Child Abuse History Clearance, issued by the Department of Human Services, and the Criminal History Record issued by the Pennsylvania State Police.

More information may be found on the Pennsylvania Keep Kids Safe website <http://keepkidssafe.pa.gov>, including [Volunteer Frequently Asked Questions](#).

***Pennsylvania Child Protection Laws
Affects both Adults Affiliated with a Team and Event Volunteers***

Consent and Release Forms



<http://www.ftcpenn.org/event-registration/event-participation-policy>

- The Pennsylvania FIRST Robotics FTC Program Consent and Release Form is not required this season
- The **FIRST Consent and Release Form is required** for all students, mentors, coaches, and volunteers at all Pennsylvania FTC Workshops, Scrimmages, Qualifiers, and State Championship
 - Electronic or paper form acceptable. If paper, it must be presented at each event
 - For students, form must be signed by parent or legal guardian not coach
- Those **without signed a FIRST C&R Form** are welcome to watch the event from the stands, but **may not participate** in the event
 - Not allowed in the Pits or in the Competition area

Coaches Call



<http://www.ftcpenn.org/ftc-events/2017-2018-season/coaches-call>



[Home](#) [Event Registration](#) [FTC Events](#)

[FTC Events](#) > [2017-2018 Season](#) >

Coaches Call

The Coaches Calls are an opportunity to learn more about the upcoming Penn State Robotics Invitational. So bring your questions, comments, and thoughts on how to improve the schedule.

Event Information

Dates

Wednesday September 13, 2017 - [iCal](#)

Thursday September 14, 2017 - [iCal](#)

Coaches Calls

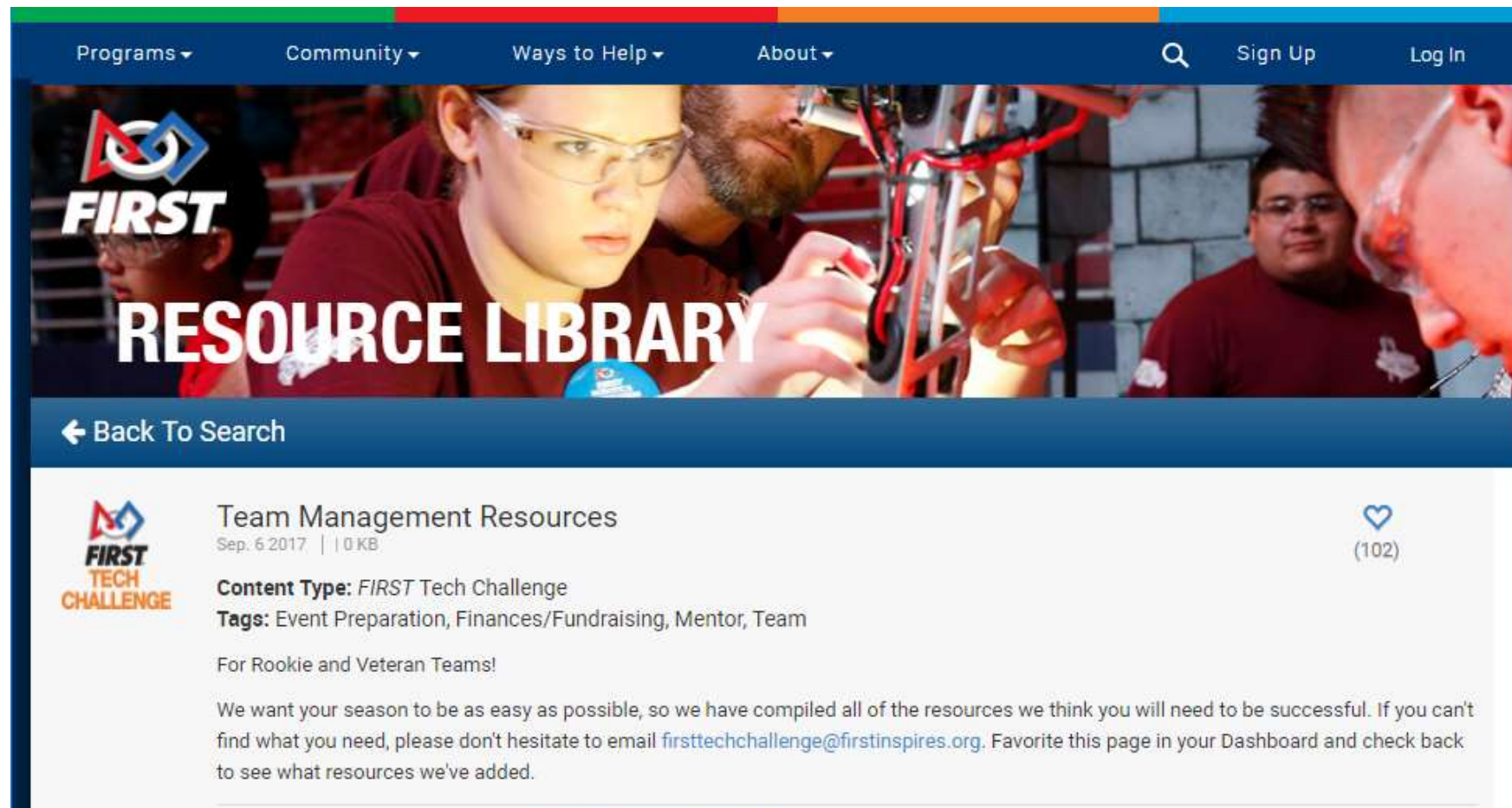
- Two calls to choose from:
 - #1 - Wednesday 9/13 7:30 PM
 - #2 - Thursday 9/14 7:30 PM
- We would love to hear what is on your mind and answer your questions.

Attend a Coaches Call next Week!

FTC Team Resources



<https://www.firstinspires.org/resource-library/ftc/team-management-resources>



FIRST provides many resources to help your team.

Judging



Game Manual Part 1

<http://www.firstinspires.org/robotics/ftc/game-and-season>

10.0 Judging & Award Criteria

10.1 Overview

This section provides descriptions of all the *FIRST* Tech Challenge Awards; the judging process, award criteria, Engineering Notebook guidelines, and philosophy that *Teams* need to be aware of in preparation for participating at *FIRST* Tech Challenge Tournaments.

Teams have spent a significant amount of time designing, building, programming their *Robot*, and learning what it takes to be part of a *Team*. For many *Teams*, the Event is the reward for all their hard work throughout the season. While there are several types of Events, they all offer a fun and exciting way for *Teams* to show the results of their efforts.

The judged awards represent a positive way we recognize *Teams* who embody important values like *Gracious Professionalism*®, Teamwork, creativity, innovation, and the value of the engineering design process. These judging guidelines are a part of the road map to success.

FIRST Tech Challenge judging sessions do not include written or verbal feedback for students. The judging is a subjective process; and students are encouraged to learn the important life skill of self-evaluation. This helps students prepare for professional interviews while developing other real world life skills. For a copy of the *FIRST* Tech Challenge *Team* Judging Session Self-Reflection Sheet please visit the website:

<http://www.firstinspires.org/node/5226>

Engineering Notebook Required for Awards

We will hold Engineering Notebook sessions at most Workshops and Scrimmages

Robots: Power Switches

Power Switch Must Be One of These...

REV Robotics (REV-31-1387)



MATRIX (50-0030)



TETRIX (W39129)



***Power Switch on the Modern Robotics Power Distribution Module
Is NOT SUFFICIENT This Year!***

Robots: Alternate Electronics

REV Robotics Expansion Hub



Each Hub (Max. 2 Per Robot):

- 4 Motors (with encoders)
- 6 Servos
- Analog (4), I2C (4), Digital (8)
- Bosch 9 axis IMU

Pros:

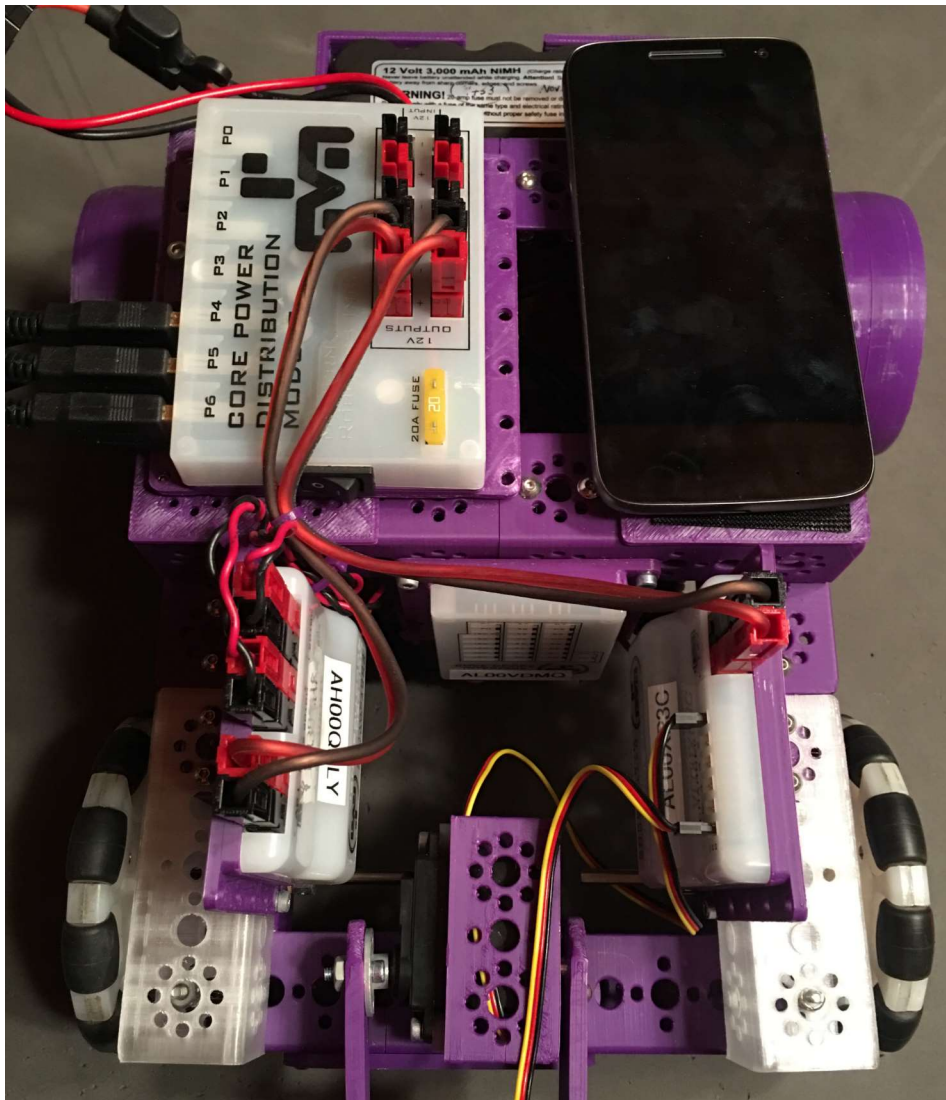
- Cheaper
- Smaller Footprint
- Fewer Wires
- Integrated IMU

Cons:

- New Motor Connectors
- New Power Connectors

Robots: DEMO Bot Comparison

Modern Robotics

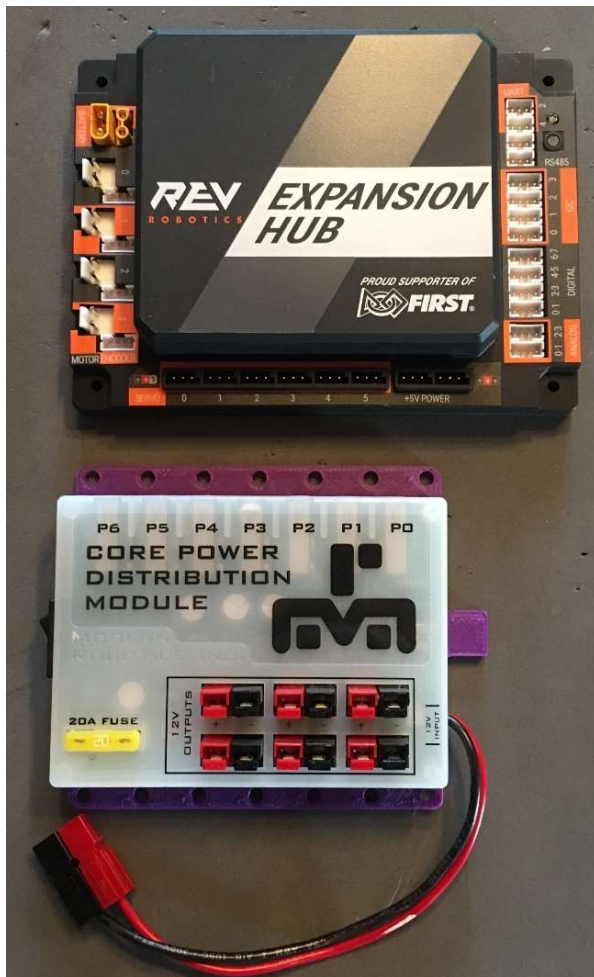


REV Robotics



Robots: REV vs. Modern Modules

Size Scale



\$175

REV Robotics



\$420

Modern Robotics



Programming

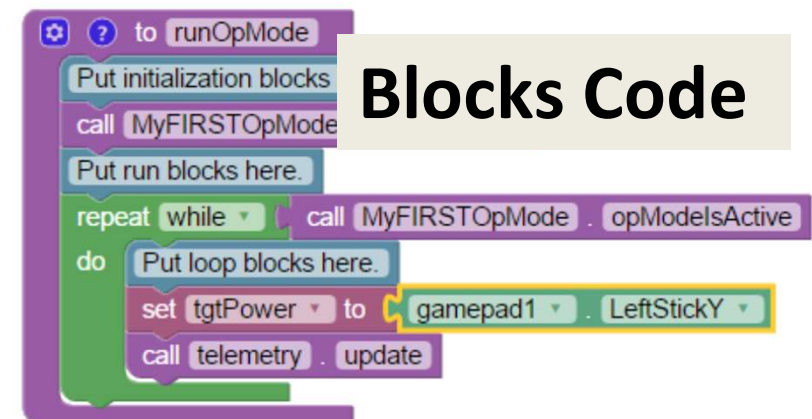
<https://www.firstinspires.org/resource-library/ftc/technology-information-and-resources>

Blocks Programming Tool

- A new graphical development tool
- Powered by Google's Blockly programming language
- No special software needed, only a browser
- Create, modify and store programs directly on FTC Robot Controller

OnBot Java

- OnBot Java allows you to install Java code directly on your Robot Controller
- Details on https://github.com/ftctechnh/ftc_app/wiki/OnBot-Java-Tutorial



This is Your FTC Program



- Thank you to all of the coaches, mentors, students, and volunteers who help make the Pennsylvania FIRST Tech Challenge program successful.
- Please participate in the workshops and scrimmages that your fellow teams are hosting. Help them help others. Share your knowledge.
- We are looking forward to a great 2017-2018 Season!



Game Reveal!