

FIRST Tech Challenge

October 2023

Events, Portfolios, Team Stuff



Agenda

Saturday Morning - Introductions, What is *FIRST*?,
Robot Resources, CENTRESTAGE game

Saturday Afternoon - FTC Events, Engineering Portfolios, Team Stuff

Sunday Morning - Wiring, Coding, Vision Portal

Sunday Afternoon - Advanced Programming or

FIRST Software, Q&A,

Agenda

- FTC Events
- Engineering Portfolio
- Team Stuff - fundraising, team building, ...

FTC Events

FTC Events

- Collaborate and share ideas,
- Compete with their robots,
- Creatively solve problems,
- Meet other *FIRST* students
- Have fun.

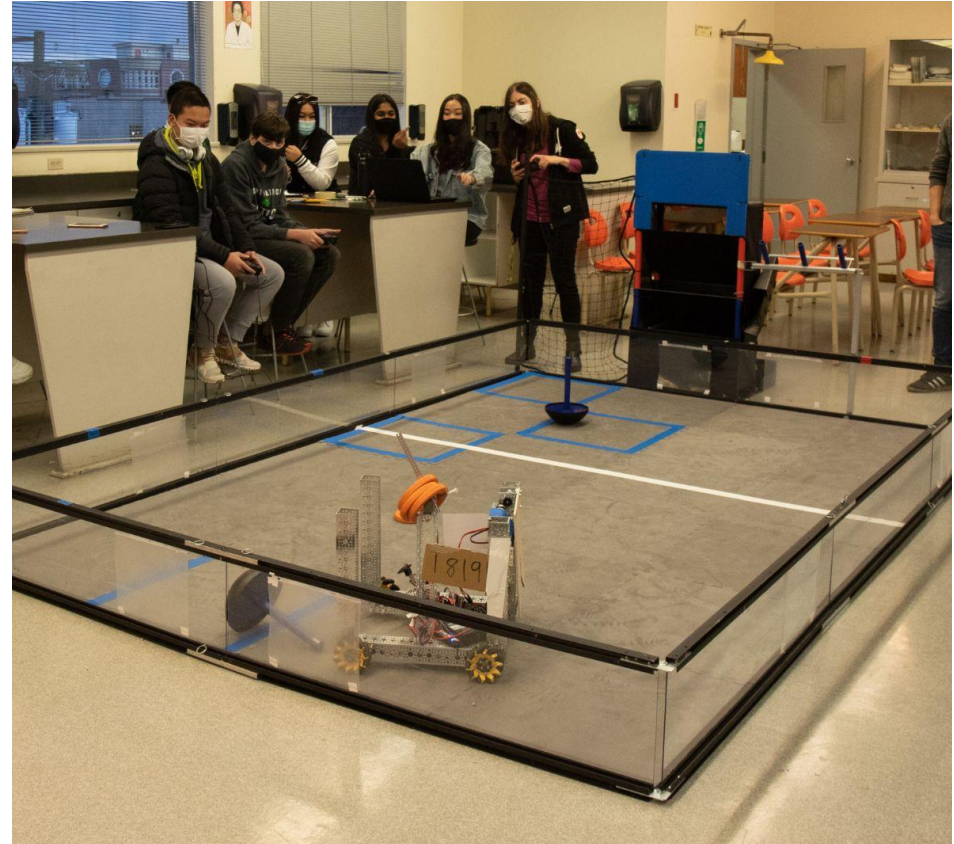
FTC Events

Scrimmages

Opportunity to test robots and learn about game rules & online software for scoring.

Dec. 9-15

Remote Scrimmage



FTC Events

Qualifiers

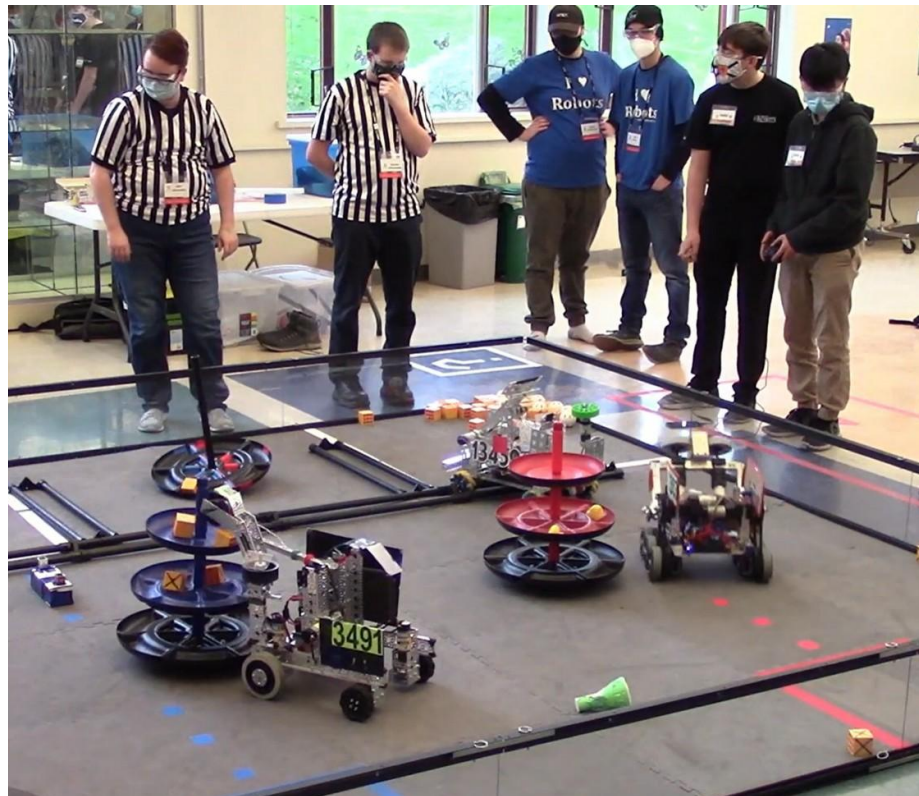
matches, judging, alliances,
eliminations matches
and awards

Jan. 11-17

Remote Qualifier

Judging on Jan. 13

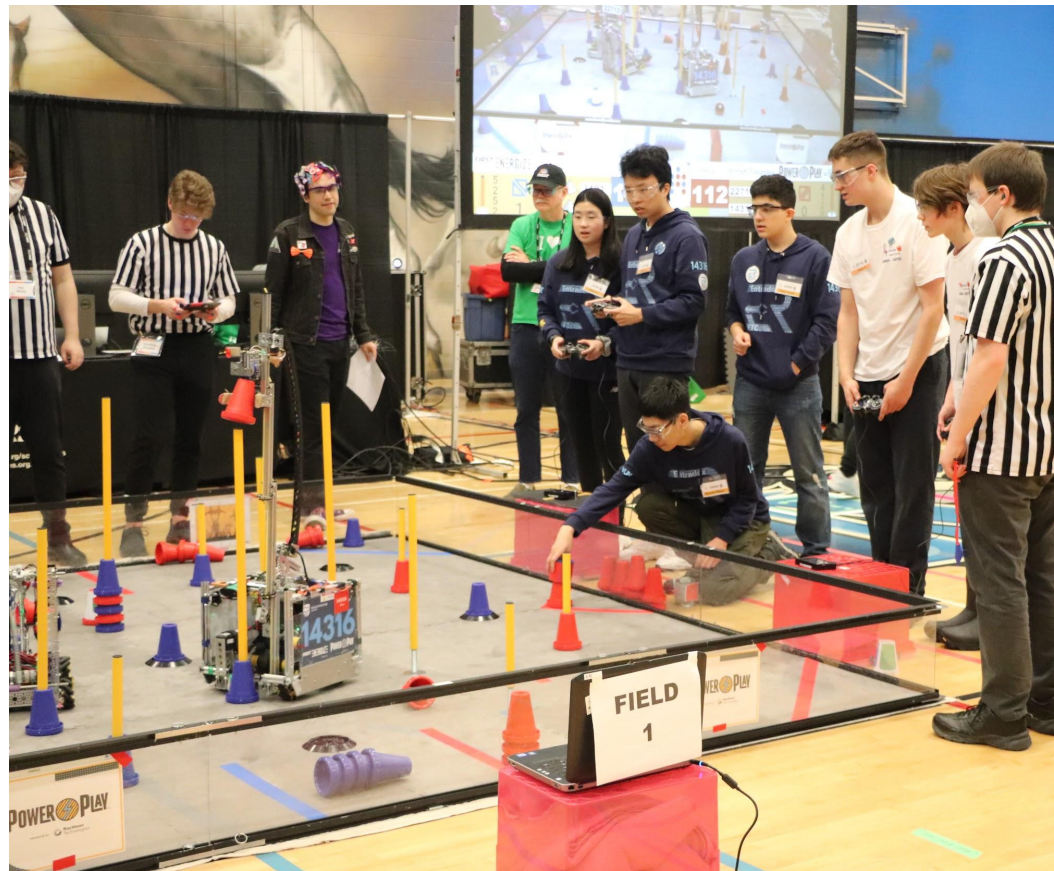
(virtual interviews)



FTC Events

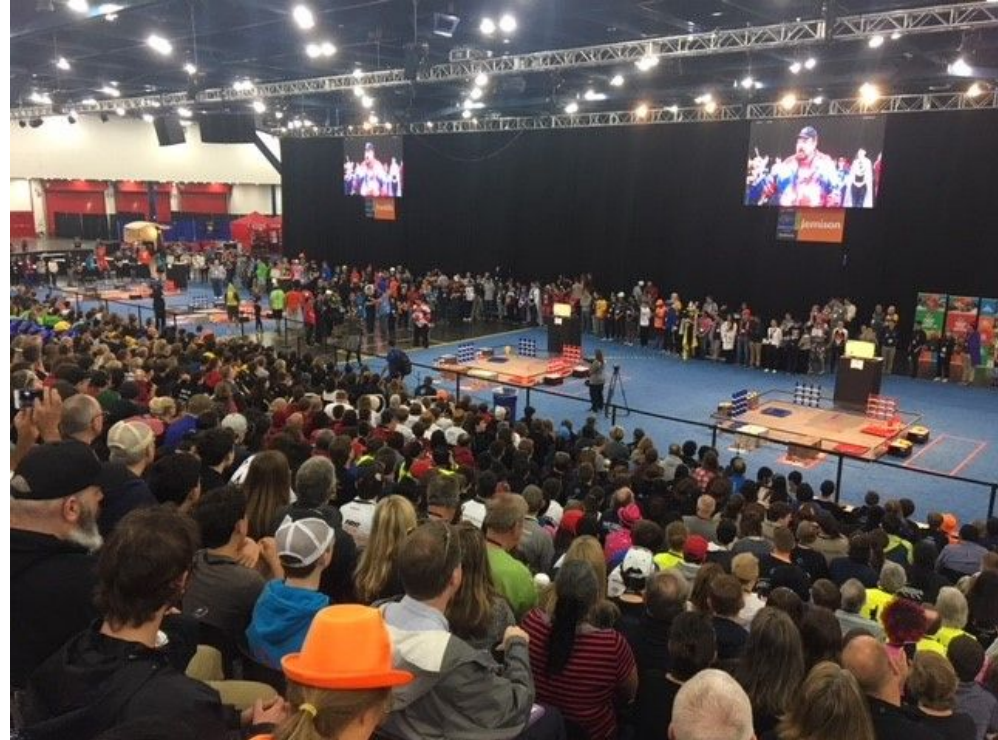
Regional Championships
best teams in the region,
two earn spots at Worlds

Feb. 24/25
Provincial Championships
in Vancouver
for top teams from Qualifiers



FTC Events

- World Championships



Judging

- Half the teams advance based on Judged Awards
- Half the teams advance based on winning robot

Judging

- Interviews are usually about 10 minutes, but could be longer for Remote events to make sure any technical issues can be sorted out.
- Teams have the option of presenting in the first 5 minutes of the interview
- Judges ask questions for the remaining time

Judging - Awards Game Manual 1 Chapter 9

Inspire
Think
Connect
Innovate
Control
Motivate
Design



Judging - Awards Game Manual 1 Chapter 9

Compass - teams create 60 second video to nominate their coach or mentor.

Promote - teams create 60 promotional video about *FIRST*.

"The best thing about FIRST Tech Challenge is..."

Dean's List - teams nominate up to two gr 10 or gr 11 students.



Engineering Portfolios

An engineering portfolio is a short and concise summary of the Team's engineering journey throughout their season.

- include sketches, discussions and Team meetings, design evolution, processes, obstacles, goals and plans to learn new skills,
- each Team member's concise thoughts throughout the journey for the season

The engineering portfolio is like the Team's CV or resume.

Engineering Portfolios

Teams can create their portfolio using any software they choose!

Artificial Intelligence can help create your portfolio. Make sure you credit it!
“This portfolio was created with the help of ChatGPT.”

Often teams use something like google docs to keep notes throughout the season.

CANVA is free software to create a professional looking document.

Engineering Portfolios - Examples

RoboClovers -

[https://campussuite-storage.s3.amazonaws.com/prod/1558774/0fe95a24-a31d-11e9-aabe-12253009c2da/2378222/297345ce-9355-11ec-981c-0e9cb3837b5b/file/RoboClovers%20FTC%202021-2022%20Engineering%20Portfolio%20\(rev%201.10.21\).pdf](https://campussuite-storage.s3.amazonaws.com/prod/1558774/0fe95a24-a31d-11e9-aabe-12253009c2da/2378222/297345ce-9355-11ec-981c-0e9cb3837b5b/file/RoboClovers%20FTC%202021-2022%20Engineering%20Portfolio%20(rev%201.10.21).pdf)

Tech Ninja - <https://ftc9929.files.wordpress.com/2021/03/ftc9929-engineering-portfolio-2020-2021-final.pdf>

MOE -

<https://static1.squarespace.com/static/5d8ab21d92fb577db13ab034/t/6505d65b00108764968c956e/1694881387865/%28Public%29+MOE+365+Engineering+Portfolio+2023.pdf>

Team Fundraising



Returning Team Budget

<i>FIRST</i> Registration	\$375
Event Fee	\$200
Robot Parts	\$300
T-shirts and other items	<u>\$125</u>
	\$ 1,000

Where can you get that type of money?

Team Fundraising

Team Fundraising

- Grants
- Sponsors
- Fundraising Activities

Team Building



Team Building

- Create Team Identity
- Develop rituals and patterns
- Find ways to value every team member
- Have fun!



Team Conflict

- Start with simple issues
- Never use majority wins
- Make sure all voices are heard
- Ask team for solutions



Team Games

- Name Games or Icebreakers
- Problems or Challenges
- Communication Games



Building Teams that Build Robots

https://www.firstinspires.org/sites/default/files/uploads/resource_library/ftc/building-teams-that-build-robots.pdf

Good Luck this Season!

