FIRST Tech Challenge

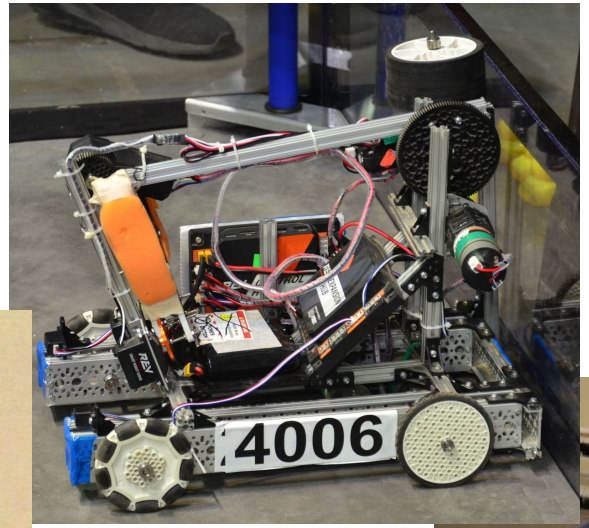
December 2022

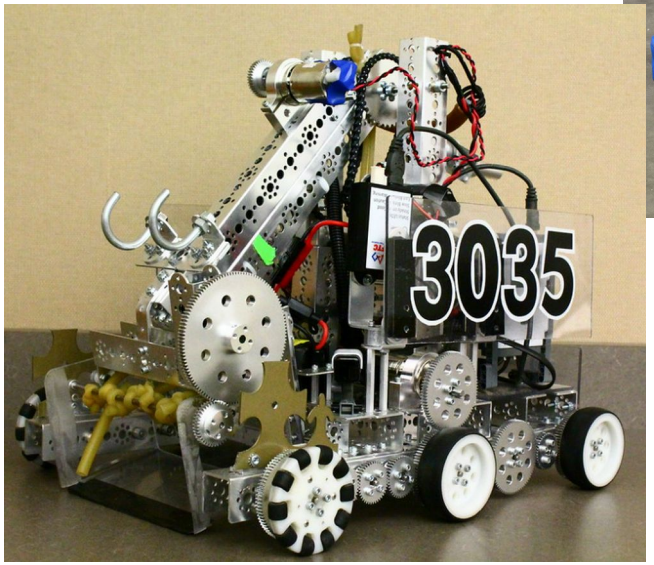
Topics

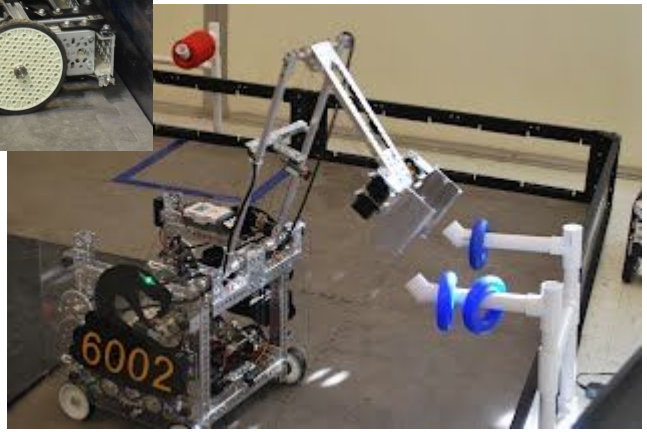
- Robots
- Gracious Professionalism
- Judging

Robots

What is required on all FTC robots?







Robots

- Fit in 18” sizing cube
- Limits on electronics (max 8 DC motors, 12 servo motors)
- Must have a power switch
- No sharp edges & corners
- Team number & Alliance Markers
- Wiring: risk of tangle / safety & other requirements

Read the Robot and Field Inspection checklists!

https://www.firstinspires.org/sites/default/files/uploads/resource_library/ftc/robot-inspection-checklist.pdf
https://www.firstinspires.org/sites/default/files/uploads/resource_library/ftc/field-inspection-checklist.pdf

Resources

FTC Docs - ftc-docs.firstinspires.org/index.html

FTC Game Manual 0 - https://gm0.org/en/latest/index.html

FIRST BC workshop videos (drive base options, mechanisms, …)
https://www.youtube.com/playlist?list=PLIBrpYHdy1Jgt1GeZRJWE40N1G1NkYJFg

Online resources created by vendors (Tetrix and REV have video series)
https://www.youtube.com/c/TETRIXbyPitsco

Online resources created by teams

Competitions

Dec. 1-7	Remote Scrimmage
Jan. 19-25	Remote Qualifier Judging on Jan. 21 (virtual interviews)
Feb. 25/26	Provincial Championships in Vancouver for top teams from Qualifiers

Gracious Professionalism

It's a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community. With Gracious Professionalism, fierce competition and mutual gain are not separate notions.

Careers
IRST Place!

Judging

Interviews with Judges

- find out about what you've learned this season. Interviews are online in a zoom-like setting.
- teams can present for the first 5 minutes, followed by 10 minutes of questions and answers from the judges.
- there will be a second interview in the afternoon.

Read Award descriptions in Game Manual 1.

Judging

Engineering Portfolio

- max. 15 pages about your team, your robot, your activities
- submitted online a couple days before judging

Judging

Control Award

- Info about programs
- Include a link to a video that shows the programming

Judging

Interviews with Judges

- find out about what you've learned this season.

Engineering Portfolio

- max. 15 pages about your team, your robot, your activities

Control Award

- Info about programs and example video

Resources

FTC Docs

- https://ftc-docs.firstinspires.org/

Questions and Answers

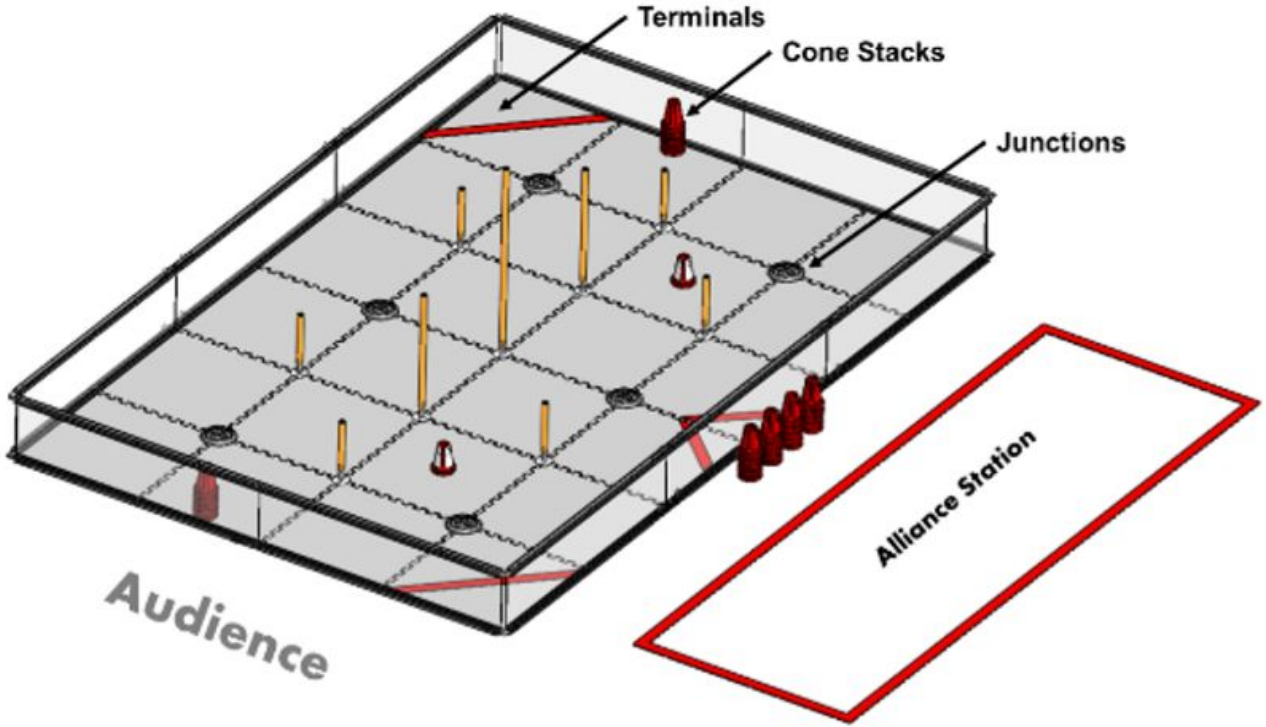
- https://ftc-qa.firstinspires.org/

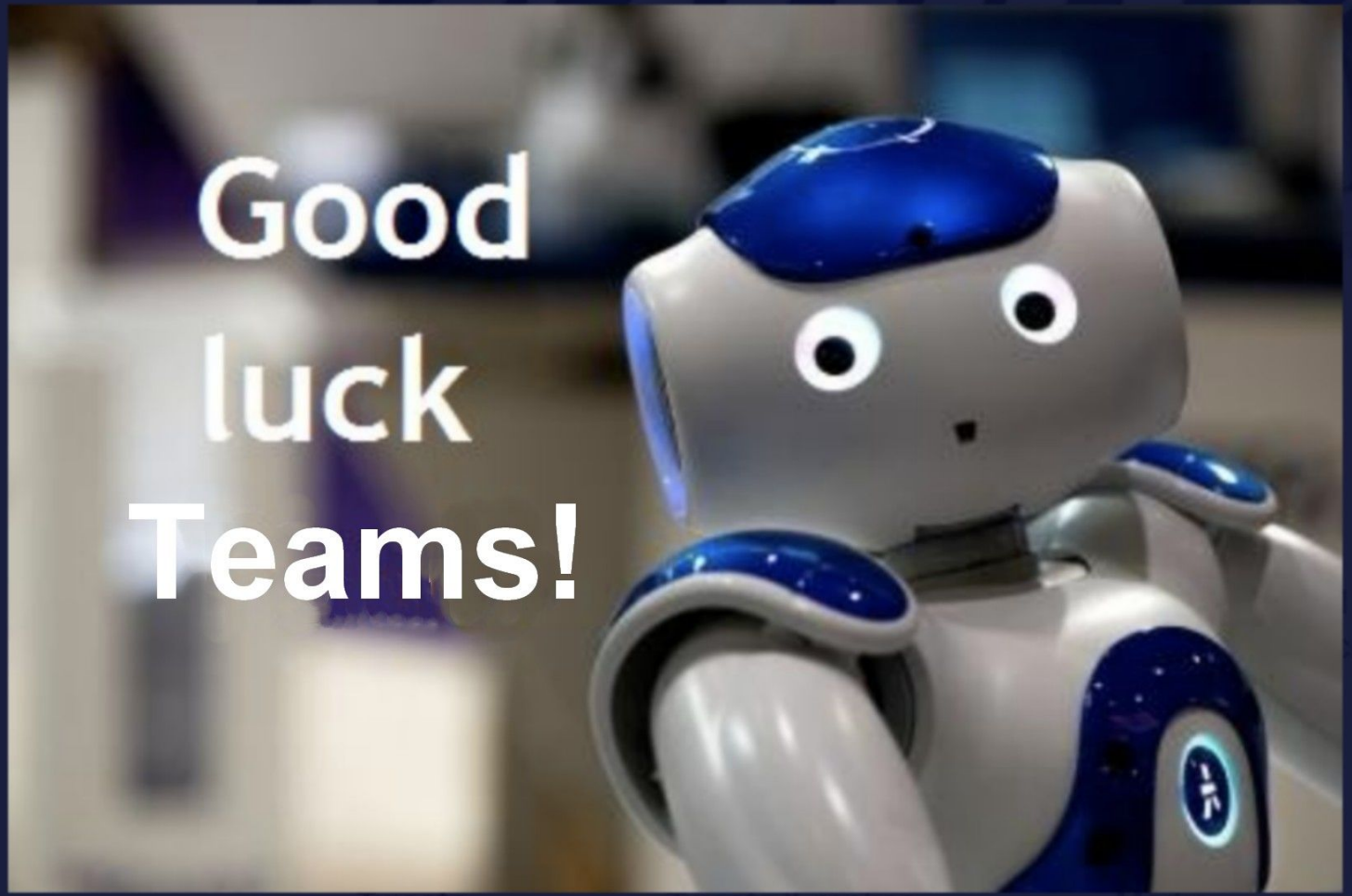
Other teams

- FTC British Columbia Discord https://discord.gg/8EEGXAU6
- Youtube videos
- Team websites

Questions

Remote Field Layout




Good
luck
Teams!