

The background is a textured, light brown surface. It is decorated with various mechanical icons: large grey gears in the corners, smaller gears in orange, black, and red, and a network of brown and orange pipes with valves and fittings. The main title is centered in a large, bold, dark brown font.

FTC SPARTANS INFO SESSION

2024-2025 Robotics Season

WHAT IS FTC?

FTC, also known as FIRST Tech Challenge is a robotics competition for students in grades 7-12 to compete head to head, by designing, building, and programming a robot to compete in an alliance format against other teams.

Three parts of a good FTC team:

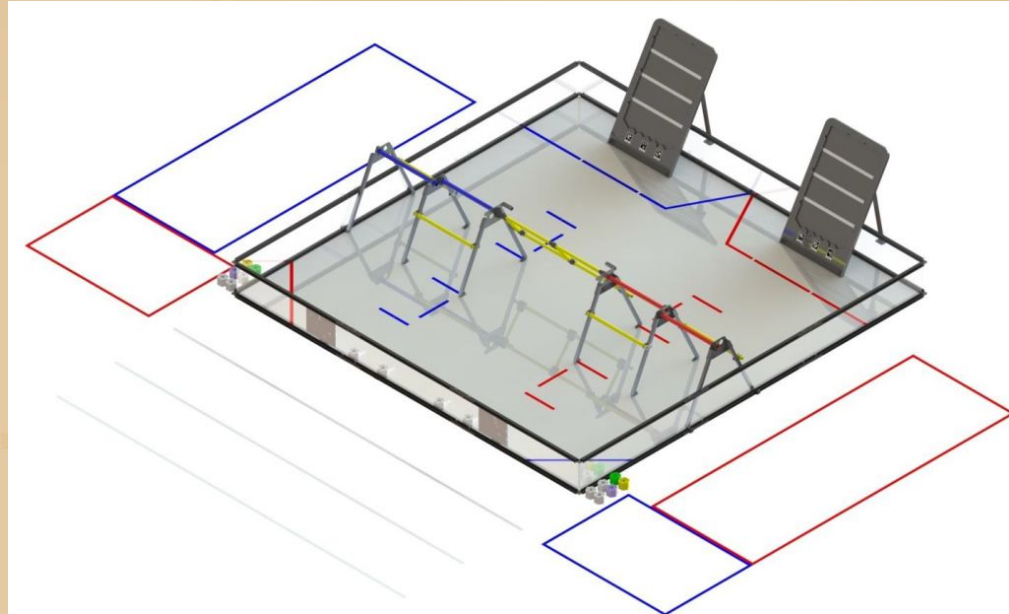
- Mechanical (building/designing the robot)
- Software (coding/developing algorithms)
- Outreach (reaching to mentors/community/marketing)

FTC ROBOT GAME

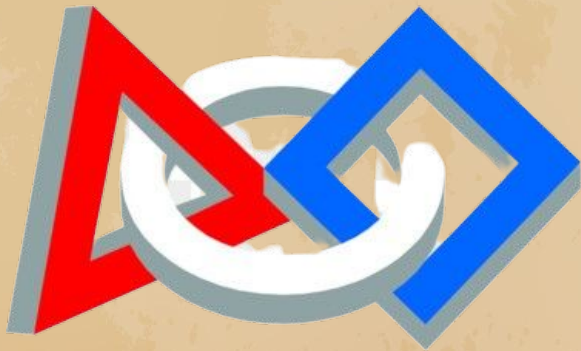
A Robot Game is 2:30 seconds long (2 vs. 2 matches)

- Autonomous period (30 seconds)
 - Preprogram code for the robot to score.
 - Consists of object detection to score bounce points.
- Tele-Op (90 seconds)
 - Drivers drive the robot to score points for their team.
- Endgame (30 seconds)
 - Drivers drive the robot to continue to score points.
 - Drivers can perform Endgame tasks to gain bounce points for their team.
- Breaking rules will result in penalty points.

Centerstage (23-24)



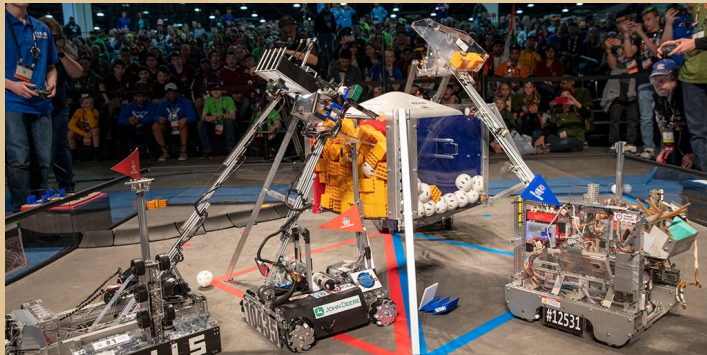
LAST SEASONS CHALLENGE: CENTERSTAGE



FIRST
TECH
CHALLENGE

FIRST TECH CHALLENGE (FTC)

- Grades 7-12
- Robots are constructed in primarily metal, 3D printed parts, etc.
- Robots versus others in scoring points.
- Primarily focused on the robot and going through the design process.
- Season: September - March



FIRST LEGO LEAGUE (FLL)

- Grades 4-8
- Robots are constructed in a only Lego parts.
- Pre Programmed robot attempts to complete as many tasks as possible to maximize points.
- Contains an innovation project that attempts to solve a problem the world is facing.
- Season: August - December



WHO ARE THE SPARTANS?

INTRODUCTION

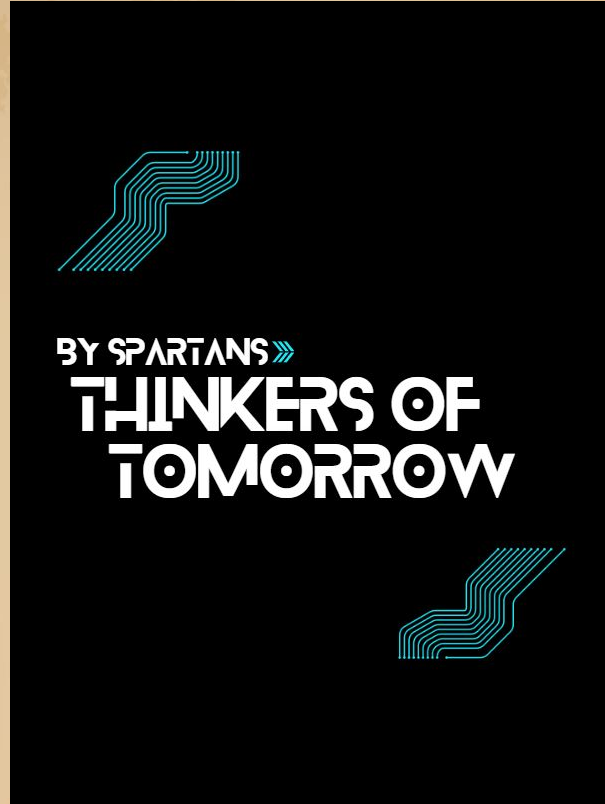
- 4th year Community Team
- Based out of Lexington, MA

MISSION/VISION

Grow technical skill sets in robotics, and create change in MA STEM.



WHO ARE THE SPARTANS?



OUTREACH

- Thinkers of Tomorrow Nonprofit
- Showcases and Events

IMPACT

- 50+ students mentored seasonally.
- Outreached to 10,000 people.

LAST SEASON EVENTS

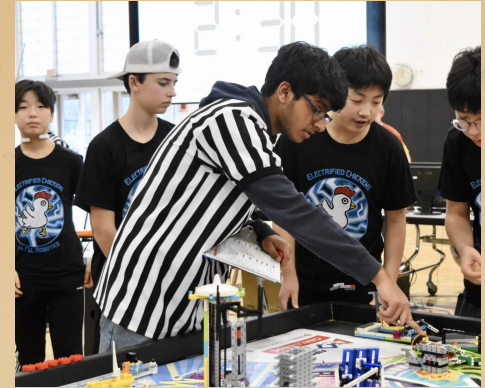
Here's where we went last season!

➤ Competition

- MA Robostorm 9.1 Qualifier
- MA WNE Qualifier
- Philadelphia Open Qualifier
- MA State Championship

➤ Outreach

- Fenway Park STEM Day
- Bedford Day
- Mass Robotics Block party
- Einstein Robotics Fair
- FLL Championship Showcase



ACHIEVEMENTS AND AWARDS

AWARDS (LAST 3 YEARS)

- Inspire Award
- Winning Alliance (2 times)
- Control Award (4 times)
- Motivate Award (2 times)

OTHER ACCOMPLISHMENTS

- Outreached to over 10,000 people amongst several events
- Mentored and Funded 9 FLL teams in underprivileged schools
- Qualified for the State Championship 2 years in a row
- Ranked highly amongst MA competitors



RESOURCES

Here are some of the resources our team offers!

➤ Workspace

- Part Storage, Game Field, and an Online and Physical Workspace.
- ABS and PLA filament 3D printer!
- Hundreds of part types for building and design from both Rev Robotics and GoBilda!

➤ Team Resources

- Several professional and student mentors, from past captains to professional robotics institutions such as MarkForged, Einstein's Workshop, and more!
- Team merchandise, including hoodies!
- Snacks and food on competition days!



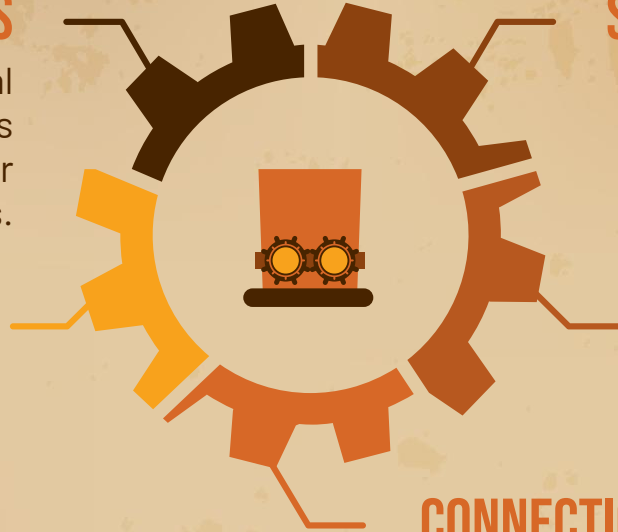
WHY FIRST TECH CHALLENGE?

STEM INSIGHTS

- Learn instrumental skills and core pillars of STEM and their applications.

COMMUNITY IMPACT

- Bring your passion for robotics to your community, give back to others.



SKILLS

- Learn how to effectively design, code and build a competition robot.

LEADERSHIP

- Take charge of a subsystem/team.

CONNECTIONS

- Meet and network with FIRST members.

COMMITMENTS - YOUR ROLE AS A MEMBER



TIME

- 2-3 Meetings a week (in person)
- Mandatory competition and event attendance



EFFORT

- Specialized roles and responsibility.
- Be ready to learn and put in the work.



JOY

- Create space for mutual growth.
- Bring passion to the team.

WHAT HAPPENS NEXT SEASON?

Next Season: INTO THE DEEP



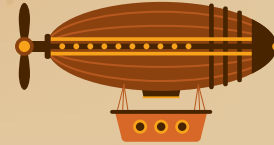
WHAT HAPPENS NOW?



WE LOOK FORWARD TO MEETING YOU!

**REGISTER
+ APPLY!**

Candidate Google Form: [Click this Link](#)



Website: www.spartansftc.com
Email: spartans20808@gmail.com

**CONTACT
US!**

The background is a textured, light brown surface with various industrial motifs. In the top-left corner, there are three gears: a grey one, a yellow one, and a red one. In the top-right corner, there is a black pipe with a red valve. In the bottom-left corner, there is a black pipe with a yellow valve. In the bottom-right corner, there is a large grey gear, a black gear, a red gear, and a yellow gear, along with some black piping. The text is centered in the middle of the image.

**ANY QUESTIONS?
EMAIL US**



**THANK
YOU!**