Robotics

What exactly is this club all about???
FIRST and FRC
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- 125 lb robots
- ~4,000 teams around the world (2019)
- Participate in competitions around the country
Our team

- Team name: Rebel Robotics
- Team #: 2638
- Founded during the 2007-2008 season
Our team - Mentors

“Motch” | Mr. Corrigan | Mrs. Zinn | Mrs. Dressner

“Big Mike” | “Squeegee” | Tom Donlon | Robin Fleishman
How FRC Works - Overview
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Technical
- Design & Building
- Computer Aided Design
- Programming
- Scouting/Strategy
How FRC Works - Overview

Non-Technical

Award Books

Merch

Digital & Social Media

Outreach

https://www.gnsrobotics.com/media/videos/
How FRC Works - Robot Game

It’s NOT BattleBots!
How FRC Works - Robot Game

- In FRC, we are tasked to build robots to accomplish certain tasks. It’s like playing a game with robots.

- Each year, there’s a different theme to the game.

2019 Game

https://www.youtube.com/watch?v=Mew6G_og-PI
How FRC Works - Competitions

- At competitions, we compete with other teams who have built robots to accomplish the tasks
- By completing these tasks, teams earn points

https://www.youtube.com/watch?v=_F-yXQfXpwU
This Year’s Game

https://www.youtube.com/watch?v=qXv8e8wjTok
This Year’s Schedule???

- **September – December:** Informational meetings, workshops (machine lessons, tool lessons, etc.)

- **Jan 2020:** Kickoff day! The rules to this year’s game, Game Changers, are revealed. We can now begin work on the robot

- **Build Season (Jan – mid-Feb):** This is the time when we actually build the robot

- **March & April:** Two regional competitions

- **Early August:** World Championships (if we make it….)
Build Season

- Strategy
- Prototyping
- CAD (Computer Aided Design)
- Fabrication out of metal
- Programming
- Drive testing
Common Questions

Do I need to know anything about robotics beforehand?

Are there tryouts?

Is it true that I will need to stay every day during the Build Season until late at night?
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Facebook and Discord

Facebook: gnsrobotics.com/facebook

Discord: gnsrobotics.com/discord
Team Resources

- **Members Website**: gnsrobotics.com/members
  - Many, many things will be posted on here, including important announcements
  - There are also resources to help you learn
Other Tidbits

- **Instagram**: @rebelrobotics2638
- **Team Website**: gnsrobotics.com
- There’s a lot of nice stuff on here. I suggest you browse through it a bit.
- **Team pics since 2008 (for your enjoyment)**: [https://www.gnsrobotics.com/media/photos/](https://www.gnsrobotics.com/media/photos/)