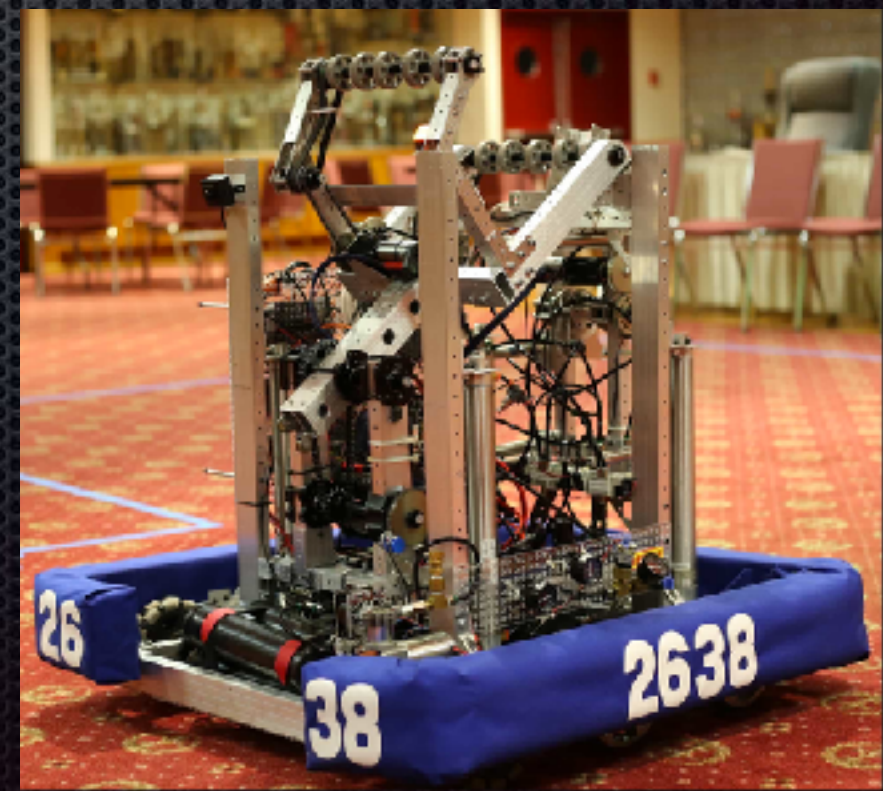




Robotics

What exactly is this club all about???



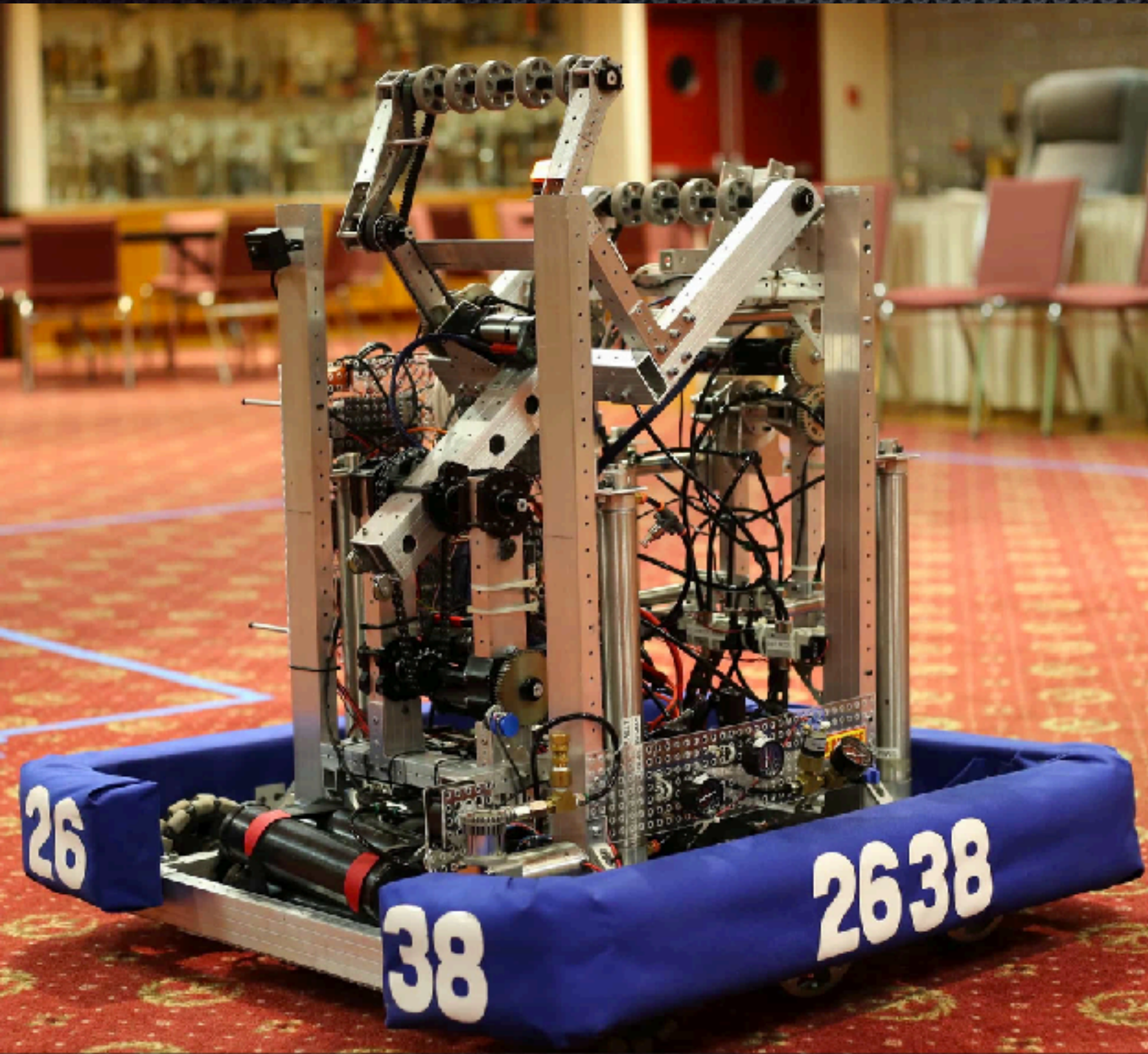
FIRST and FRC



FIRST and FRC



- 125 lb robots
- ~4,000 teams around the world (2019)
- Participate in competitions around the country



Our team

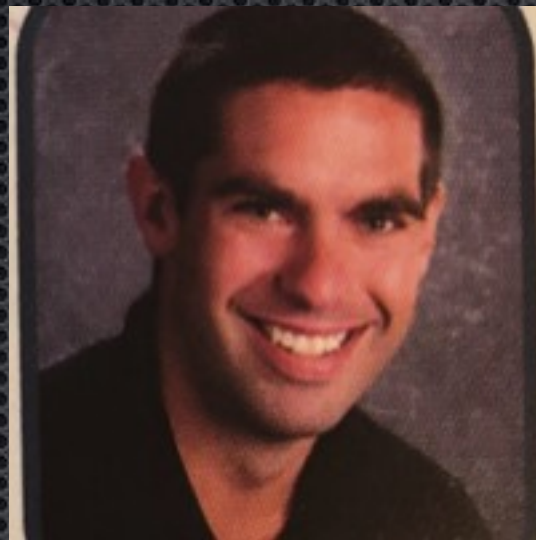
- ✦ Team name: Rebel Robotics
- ✦ Team #: 2638
- ✦ Founded during the 2007-2008 season



Our team - Mentors



"Motch"



Mr. Corrigan



Mrs. Zinn



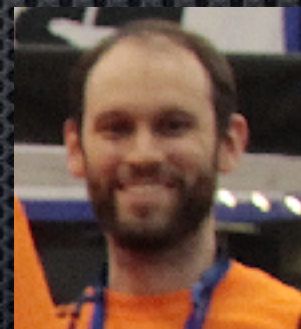
Mrs. Dressner



"Big Mike"



"Squeegee"



Tom Donlon



Robin Fleishman

How FRC Works - Overview

Technical



Non-Technical



How FRC Works - Overview

Non-Technical



Award Books



Merch

<https://www.gnsrobotics.com/merchandise/>



Digital & Social Media

<https://www.gnsrobotics.com/media/videos/>

And much more...

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 almost like playing a game with robots
- ✦ Each year, there's a different theme to the game
- ✦ At competitions, we compete with other teams who have built robots to accomplish the tasks
- ✦ By completing these tasks, teams earn points

How FRC Works - Robot Game

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Last Years 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



**INFINITE
RECHARGE™**



**FIRST
ROBOTICS
COMPETITION**

FOR AGES
14-18

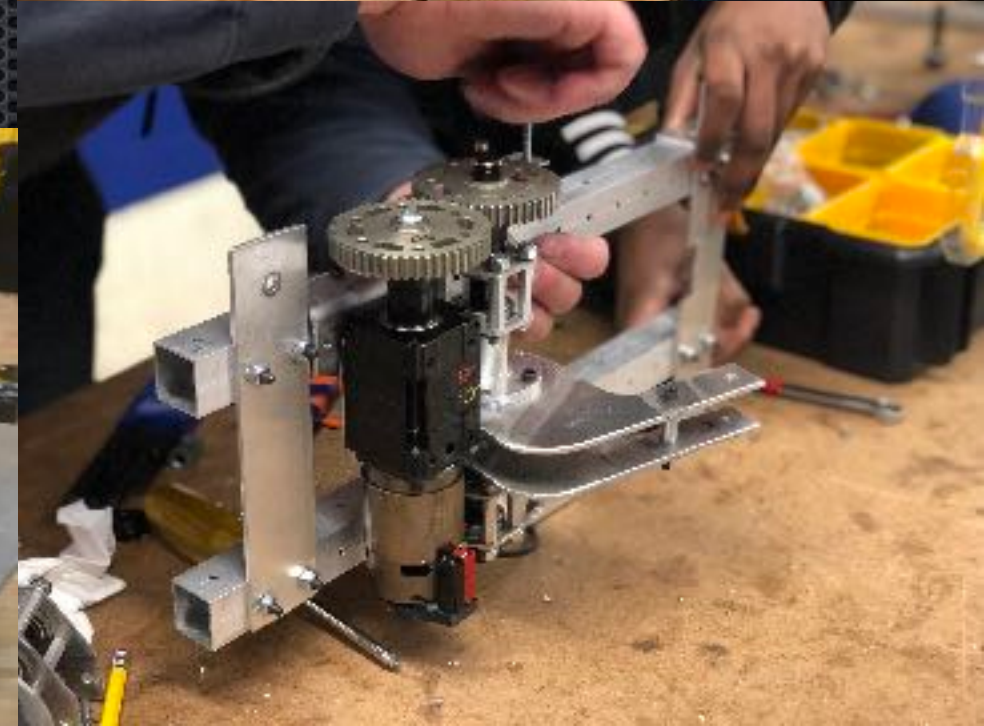
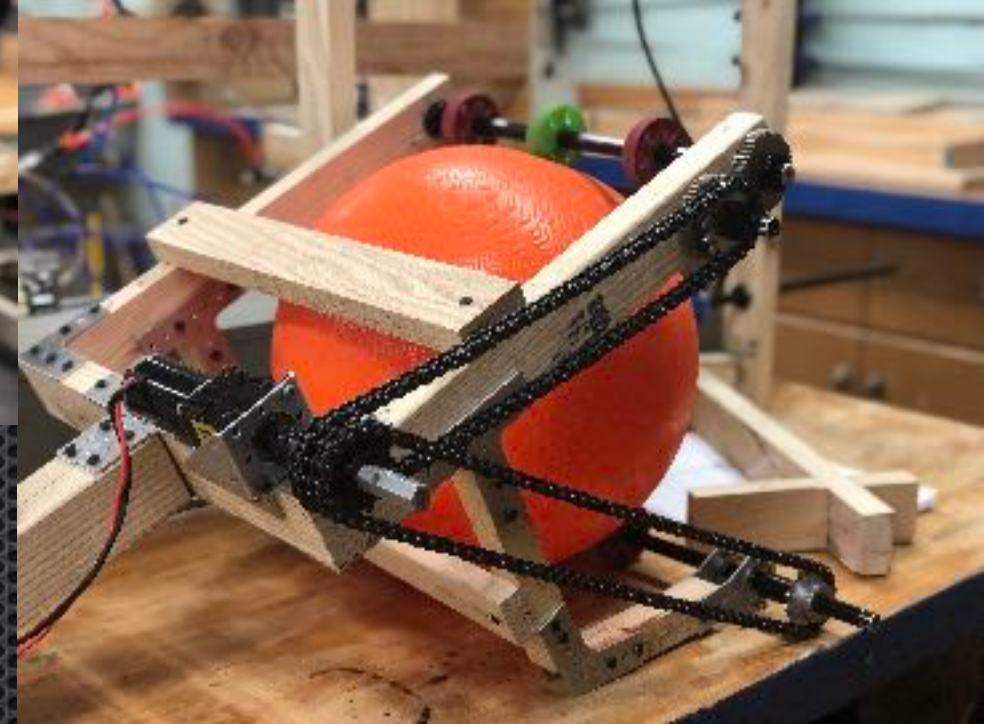
<https://www.youtube.com/watch?v=1y9PNhVAGmM>

This Year's Schedule

- ✦ **September – December:** Informational meetings, workshops (machine lessons, tool lessons, etc.)
- ✦ **Jan 4th, 2020:** Kickoff day! The rules to this year's game, Infinite Recharge, are revealed. The rules are posted and we can now begin work on the robot
- ✦ **Build Season (Jan 4th – mid-Feb):** This is the time when we actually build the robot
- ✦ **March (and maybe April):** Two regional competitions
- ✦ **End of April:** 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?

Common Questions

No!

Common Questions

Do I need to know anything about robotics beforehand?

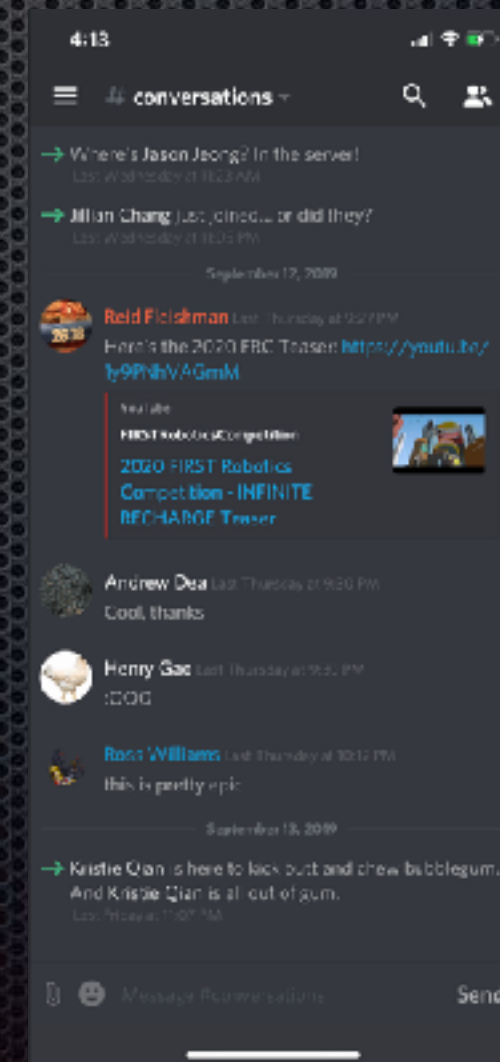
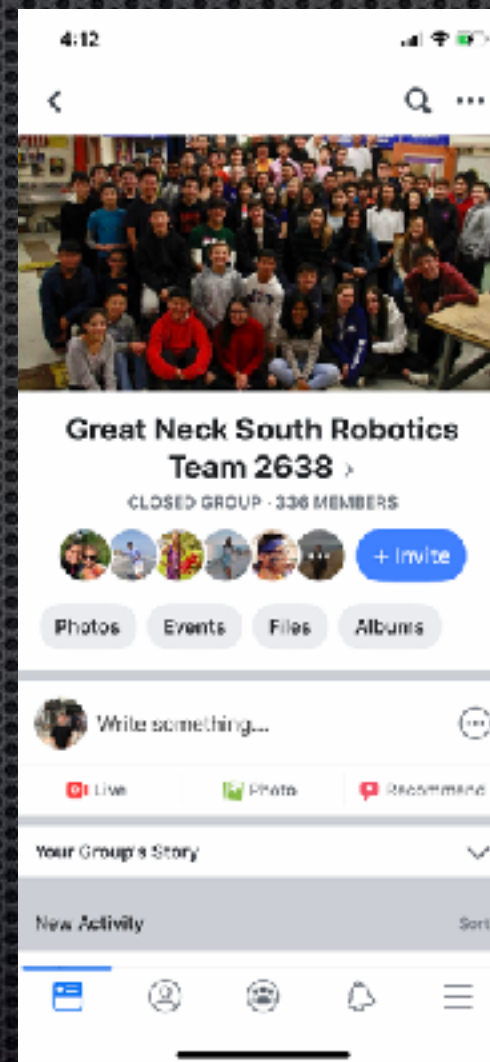
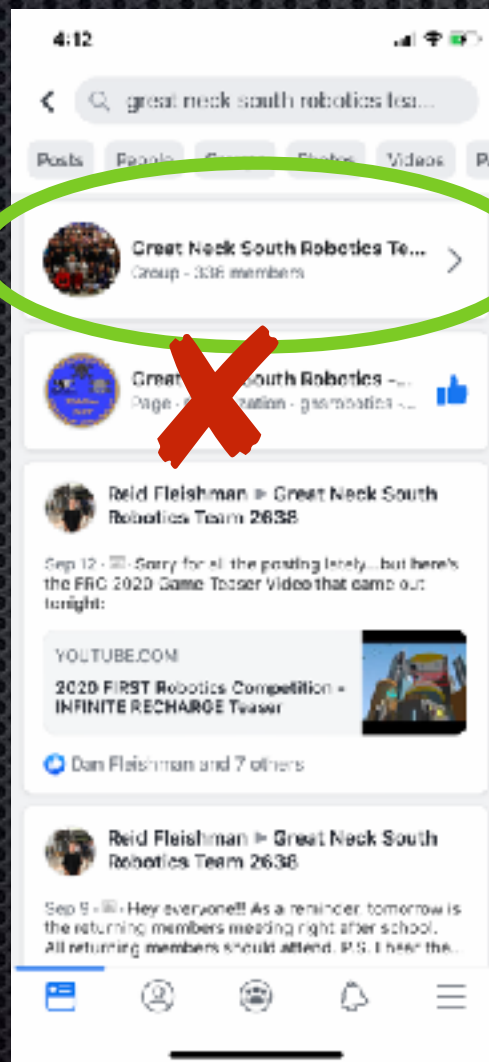
Are there tryouts?

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

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.
- ✦ **iMessage Sticker Pack:** <https://apps.apple.com/us/app/2638-stickers/id1460620834>
- ✦ **Team pics since 2008 (for your enjoyment):** <https://www.gnsrobotics.com/media/photos/>