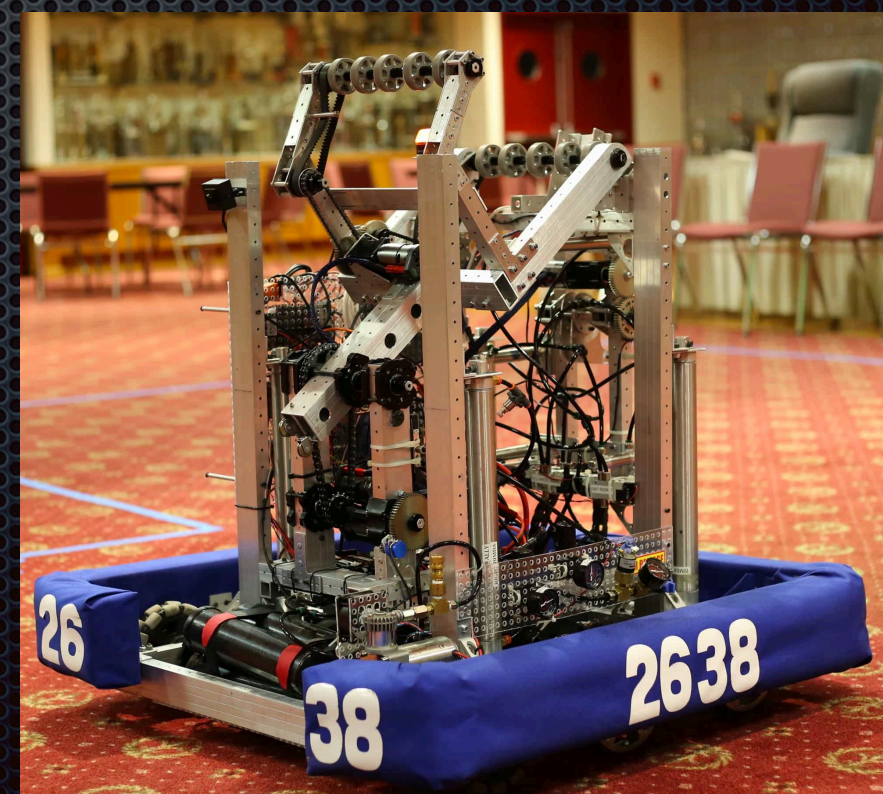




# Robotics

What exactly is this club all about???





# FIRST and FRC



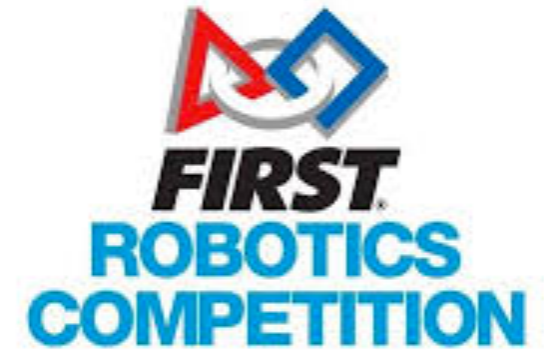
**FIRST**  
**LEGO**  
**LEAGUE JR.**



**FIRST**  
**LEGO**  
**LEAGUE**



**FIRST**  
**TECH**  
**CHALLENGE**

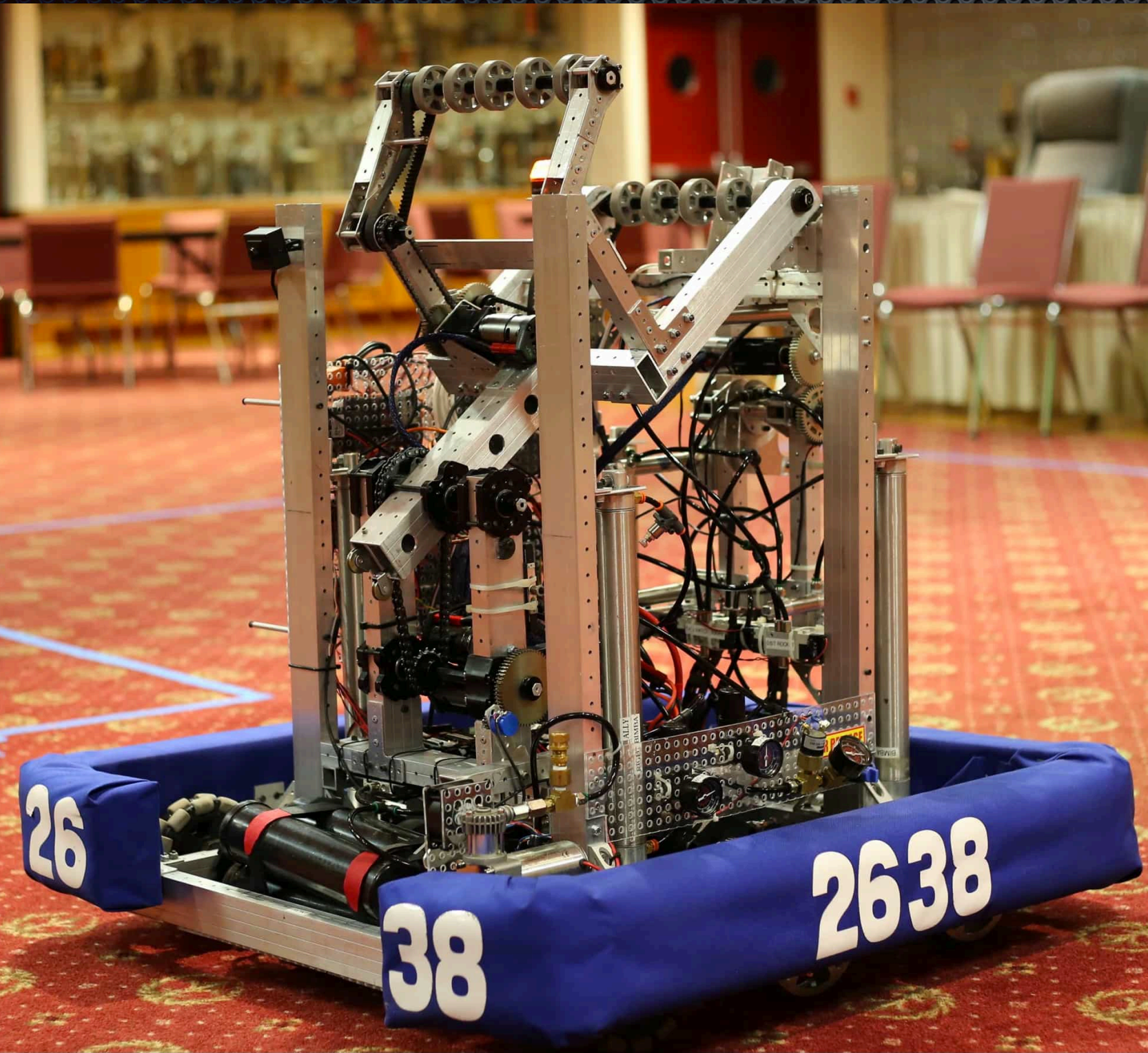


**FIRST**  
**ROBOTICS**  
**COMPETITION**





# 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

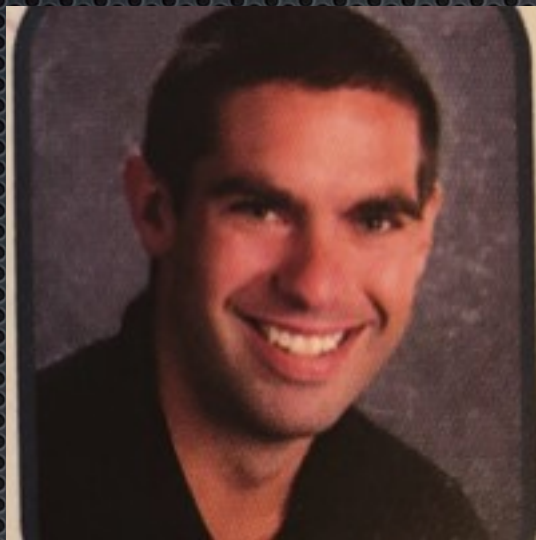




# Our team - Mentors



“Motch”



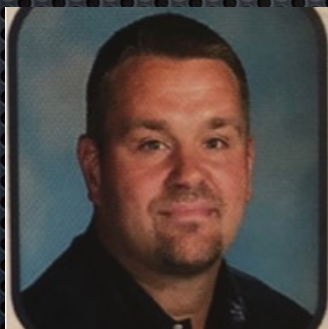
Mr. Corrigan



Mrs. Zinn



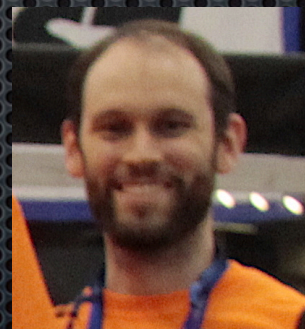
Mrs. Dressner



“Big Mike”



“Squeegee”



Tom Donlon



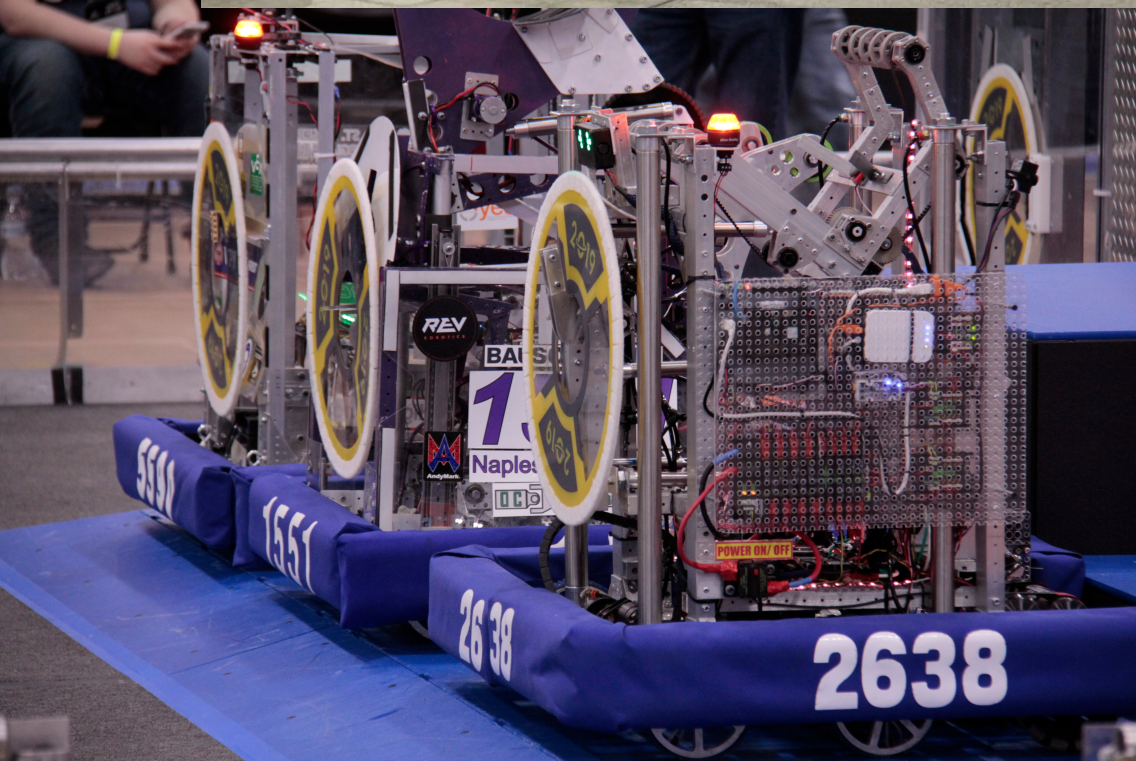
Robin Fleishman



# 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

- 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



Last Years Game

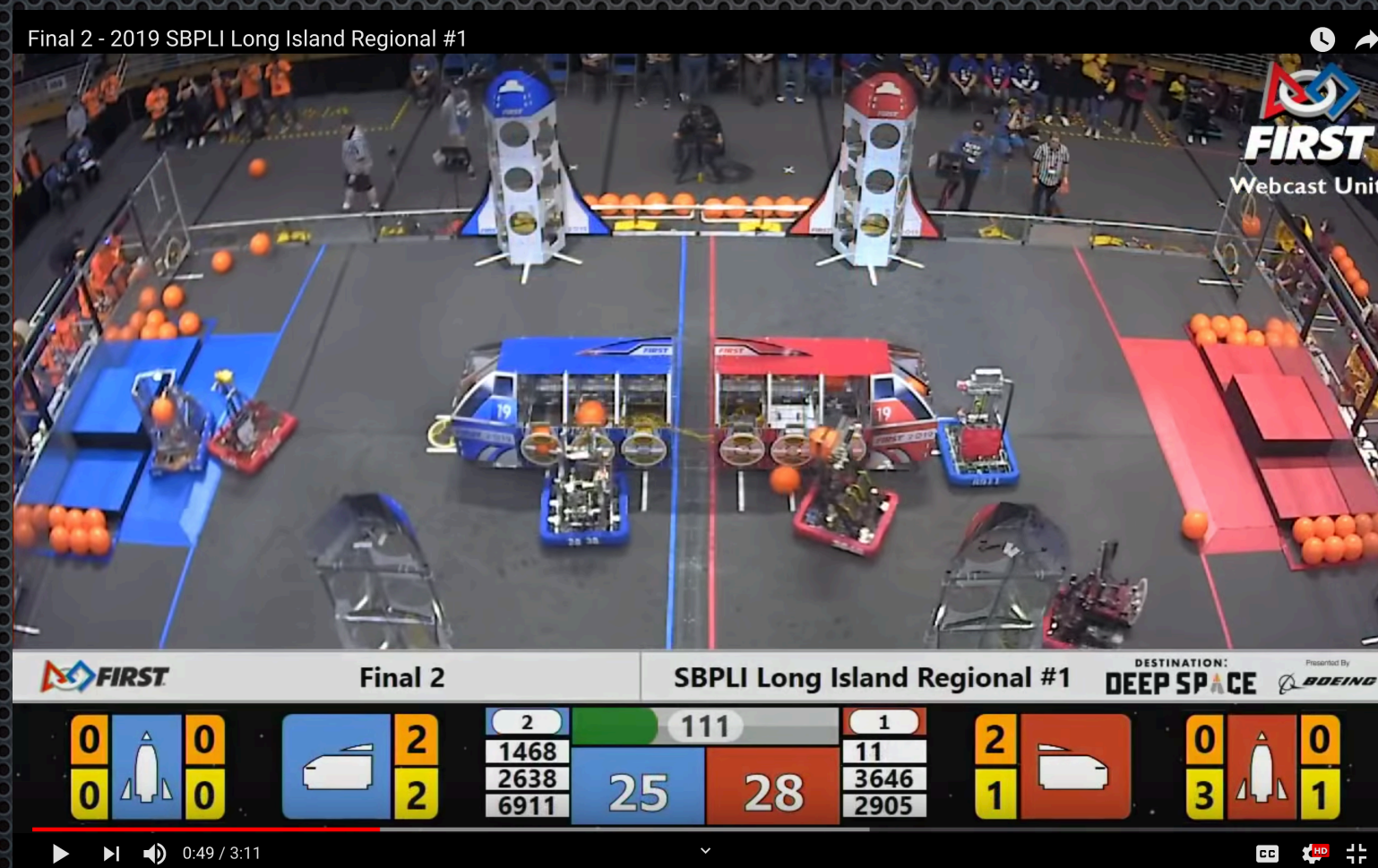


[https://www.youtube.com/watch?v=Mew6G\\_oG-PI](https://www.youtube.com/watch?v=Mew6G_oG-PI)



# 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](https://www.youtube.com/watch?v=_F-yXQfXpwU)



# This Year's Game



**INFINITE  
RECHARGE**<sup>SM</sup>



**FIRST  
ROBOTICS  
COMPETITION**

FOR AGES  
14-18

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



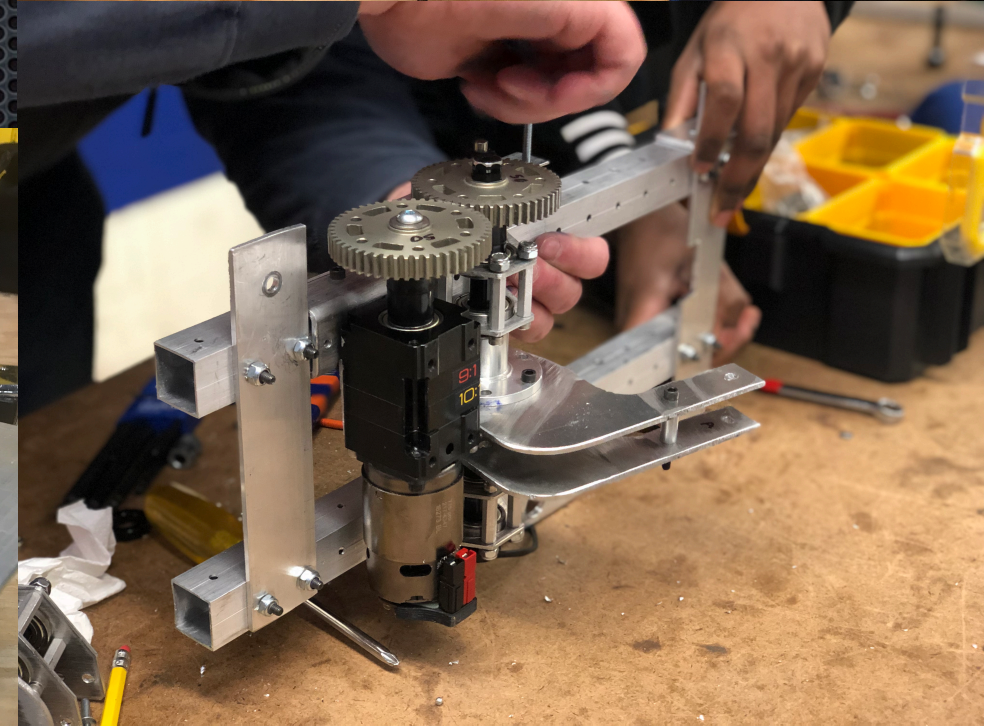
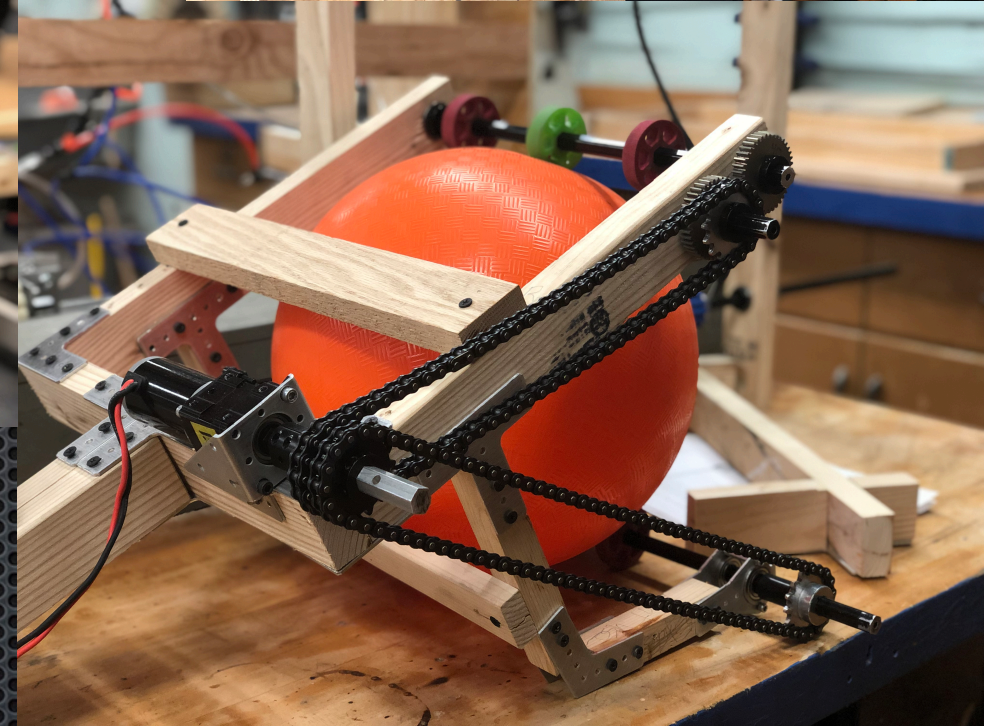
# This Year's Schedule

- ✦ **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?**

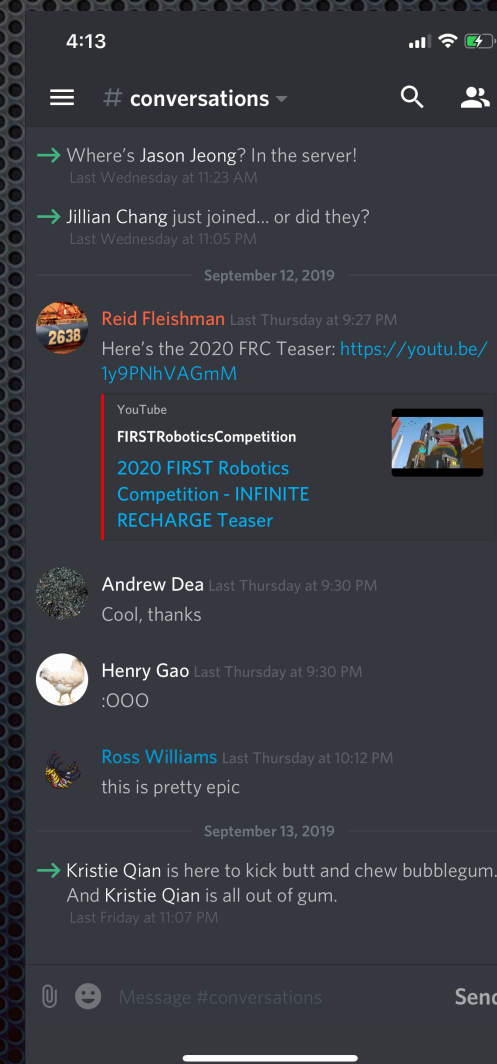
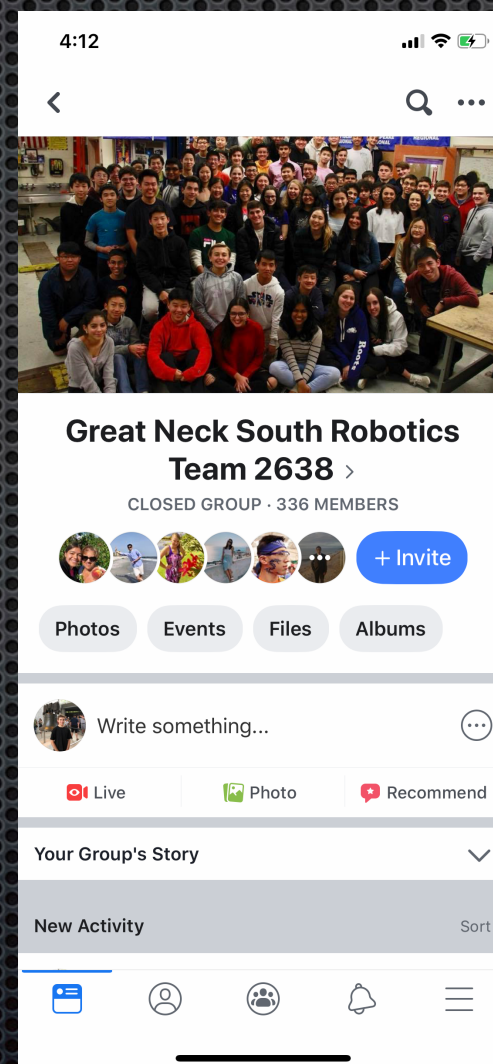
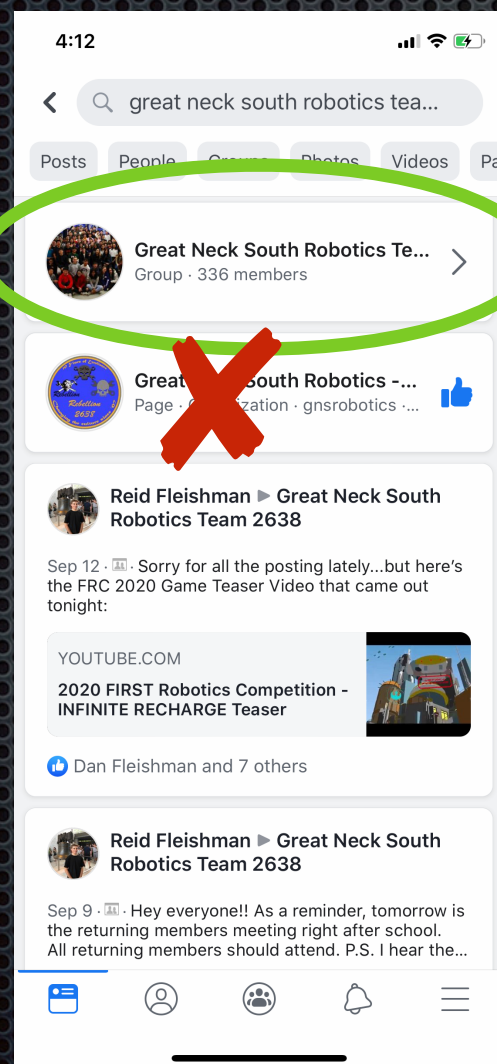
**Is it true that I will need to stay every day during the Build Season until late at night?**



# Facebook and Discord

Facebook: [gnsrobotics.com/facebook](https://gnsrobotics.com/facebook)

Discord: [gnsrobotics.com/discord](https://gnsrobotics.com/discord)





# Team Resources

- ✦ **Members Website:** [gnsrobotics.com/members](https://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](http://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/>