

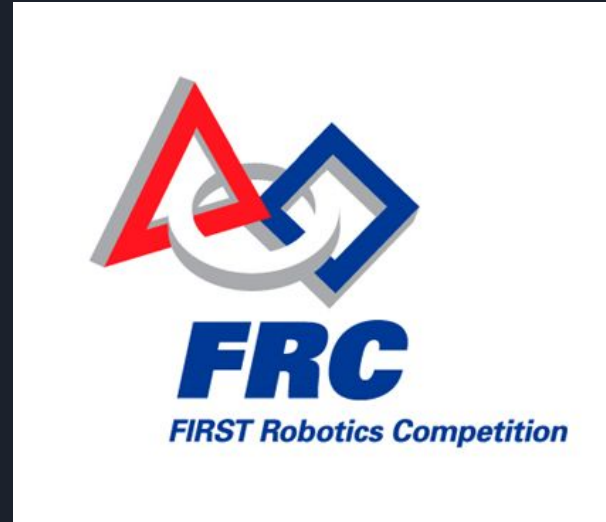


Mock Kickoff 2018

By: Team 1732 Strategy Subteam

FRC Season

- Kickoff- January 5th
- 6 week build season
- 6 weeks of regional and district competitions
- 1-2 weeks of district championships
- WORLDS!

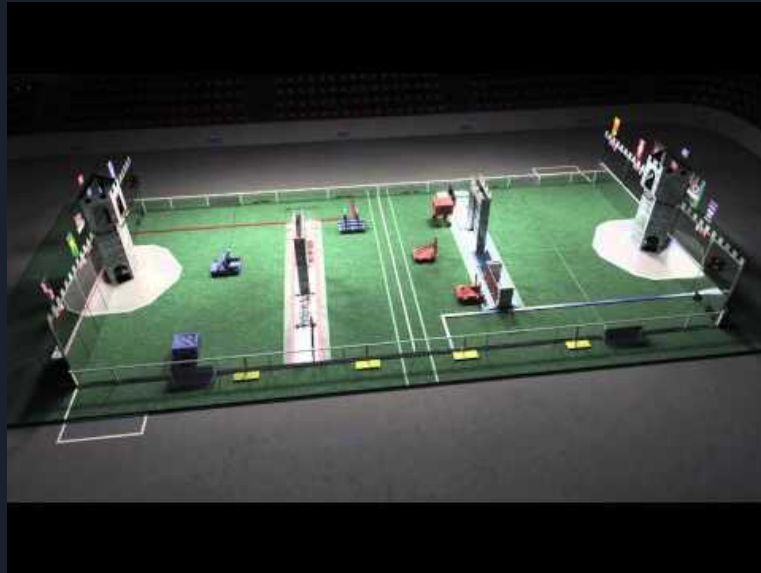


What is Kickoff?

- January 5th, 2019
- Waukesha County Technical College
- Meet other teams!
- The new game is announced
 - Rules released online
 - Kit of Parts
- Brainstorm



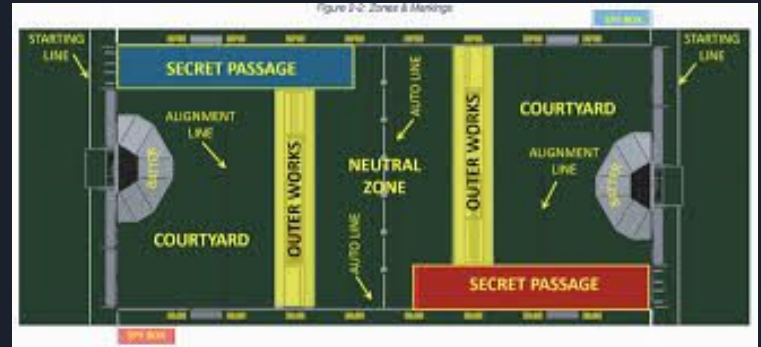
Stronghold (2016)



Field Layout



Figure 2-2: Zones & Menings



Analyze these nuts

- How do we score?
- What are the important rules?
- How can we win?



Brainstorm

- Small groups led by veterans
 - No hints!
- Brainstorm strategic ways to play the game
 - No designs yet
 - How would you play the game?
 - Maximize score?
- Nominate one person (not group leader) to present ideas
 - No looking at videos of the game!



Discuss



What is in a Robot?

- Drive Train
- Appendages
- Battery
- Sensors
- Controls





Mock Game!

1. Choose someone from your group to play a game with your strategy
 - a. Use what you wrote down and presented to see if you came up with the right strategy
 - b. Be careful of robots disabling mid match!
2. Audience, pay attention to what you think went right and what went wrong.

More Brainstorming

- Small groups led by veterans
- No hints!
- Brainstorm ways to *build* a robot
- What role will your robot fill?
- Nominate one (different) person to present ideas!
- No looking at videos of other robots!



Even More Discussion!



Silicon Valley Regional Quarter Final 3-2



**2016 Silicon Valley Regional
FIRST Robotics Competition
Day 3 (Field Only), April 9, 2016**

5:49:32

https://www.youtube.com/watch?v=cGe8wdbfl_E

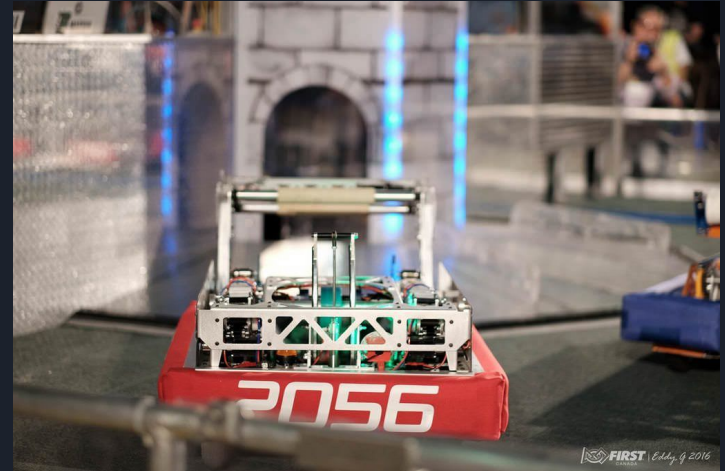
2016 Einstein Field Final 3 (Tiebreaker Match)



<https://www.youtube.com/watch?v=i1repWTe0j0>

Ideal Robot Priorities

1. Being able to Cross Defenses well is needed!
2. Autonomous - Cross Defenses at a minimum, maybe shoot once or twice at tower
3. Floor pickup - No other way to get balls
4. Teleoperated ball scoring needs to be efficient
5. Defense



Ideal Robot Design

Two Ball Autonomous

Roller intake floor pickup

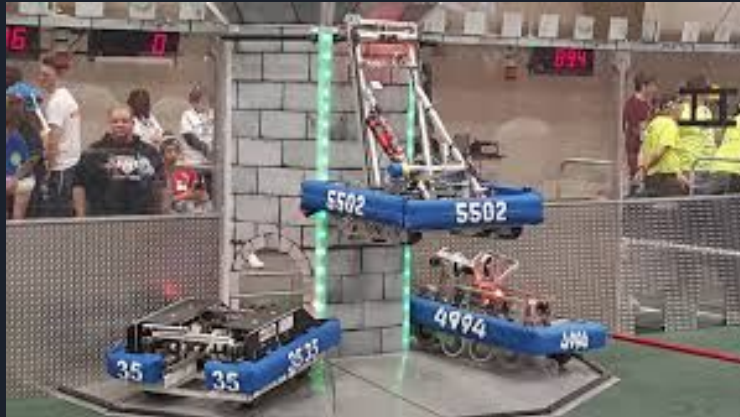
Intake to grab balls from not specific point
(971)

Vision Tracking for accurate shots into tower

Tank drive



Winning Strategies



(Kinda) Common Strategy:

- Be able to climb in the end game, great way to boost your score

Alternative Strategy:

- Defense
 - Block Balls
 - Ball Starvation



Thanks for coming!