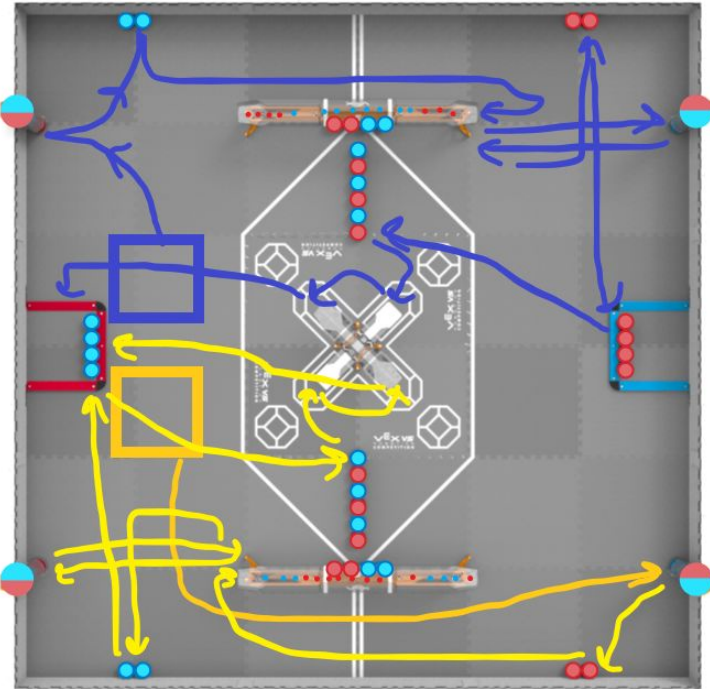


Autonomous Skills: Max Score Pathing ✓ 15" ✓ 24"

Goals

- Earn the maximum amount of points in Autonomous Skills to perform at the top of Skills for Worlds
- Have Autonomous Skills consistent enough to hopefully run the same path & code for Driver Skills
- Optimize for consistency & stop time

Field Mapping



Pros

- Maxes the amount of points, besides assuming 8 blocks in center goals or 16 in long goals, which is very hard to do
- Hopefully optimizes for skills stop time

Cons

- Very complex & does not clear the park zones or loaders early
- Intaking the center blocks is risky, may need to switch to the under long goal blocks instead

24" Robot

1. Intake all blocks in the Top Left Match Loader
2. Intake the 2x Top Left Blue Wall Blocks
3. Score on the right side of the Top Long Goal (1x Red Preload, 3x Red, 5x Blue)
4. Intake all blocks in the Top Right Match Loader
5. Score on the right side of the Top Long Goal (3x Blue, 3x Red) (Control Bonus + Filled Goal)
6. Intake the 2x Top Right Red Wall Blocks
7. Intake the 4x Red Blocks in the Blue Park Zone
8. Intake 1x Red Block in the Upper center of the field
9. Score on the Bottom Center Goal (7x Red)
10. Block for the Top Center Goal Scoring
11. Park

15" Robot

1. Intake all blocks in the Bottom Right Match Loader
2. Intake the 2x Bottom Right Red Wall Blocks
3. Score on the left side of the Bottom Long Goal (1x Red Preload, 3x Blue, 5x Red)
4. Intake all blocks in the Bottom Left Match Loader
5. Score on the left side of the Bottom Long Goal (3x Red, 3x Blue) (Control Bonus + Filled Goal)
6. Intake the 2x Bottom Left Blue Wall Blocks
7. Intake the 4x Blue Blocks in the Red Park Zone
8. Intake 1x Blue Block in the Lower center of the field
9. Block for the Bottom Center Goal Scoring
10. Score on the Top Center Goal (7x Red)
11. Park

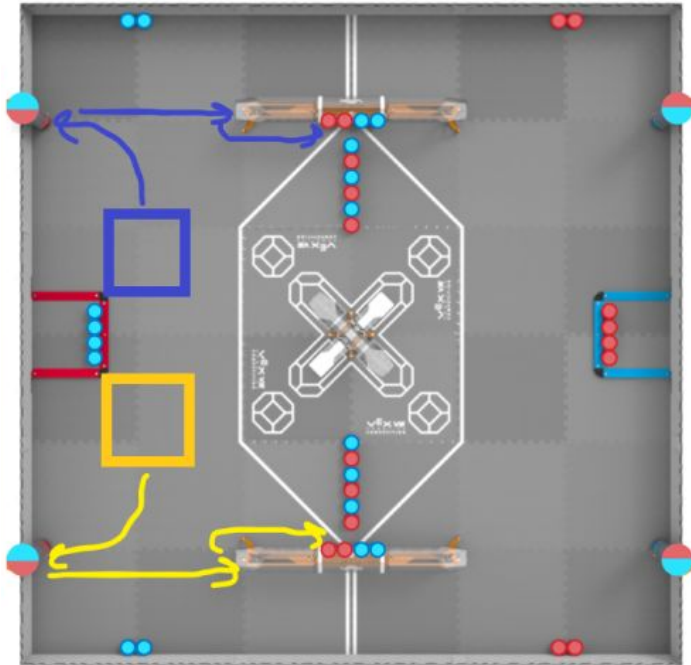
Autonomous Match: 10 Block Long Goal Rush + Wing Push

✓ 15" ✓ 24"

Goals

- Guarantee the autonomous win very quickly
- Used when the opponent scores 6 Blocks or less in the Long Goal & does not try to push Blocks into the Long Goal Control Zone

Field Mapping



Both Robots

1. Drive to match loader
2. Intake 3 Red Blocks & 3 Blue Blocks
3. Color sort out 3 Blue Blocks
4. Intake 6 Match Loader Blocks
5. Score in Long Goal
6. Use Wing to push opponent blocks out of Long Goal while having 10 in the Long Goal

Pros

- 80 points & is unbeatable

Cons

- Gives a moment of opportunity for the opponent to descore our blocks

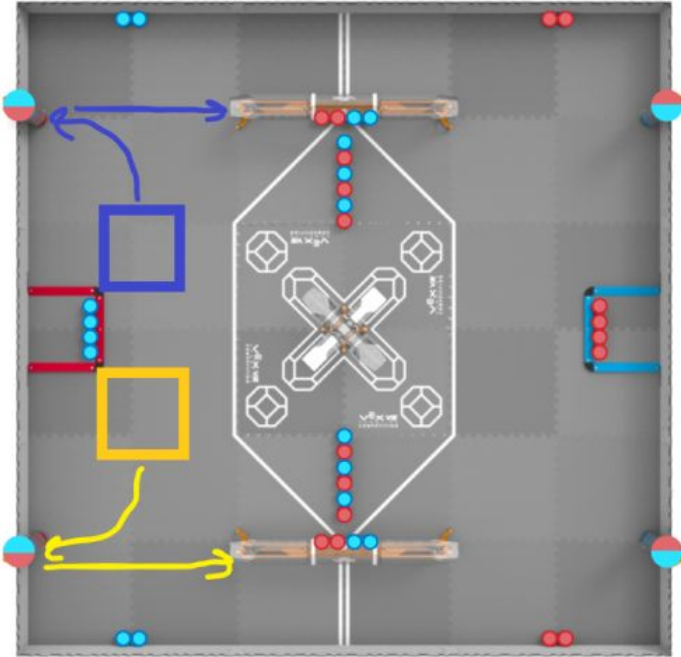
Autonomous Match: 10 Block Long Goal Rush

✓ 15" ✓ 24"

Goals

- Guarantee the autonomous win very quickly
- Used when the opponent scores 6 Blocks or less in the Long Goal & tries to push Blocks into the Long Goal Control Zone

Field Mapping



Both Robots

1. Drive to match loader
2. Intake 3 Red Blocks & 3 Blue Blocks
3. Color sort out 3 Blue Blocks
4. Intake 6 Match Loader Blocks
5. Score in Long Goal & sit there

Pros

- Earns 80 pts quickly
- Opponent must score 6 Blocks in each center goal & 5 blocks in each long goal to tie

Cons

- Chance we may not be able to score all 10 Blocks

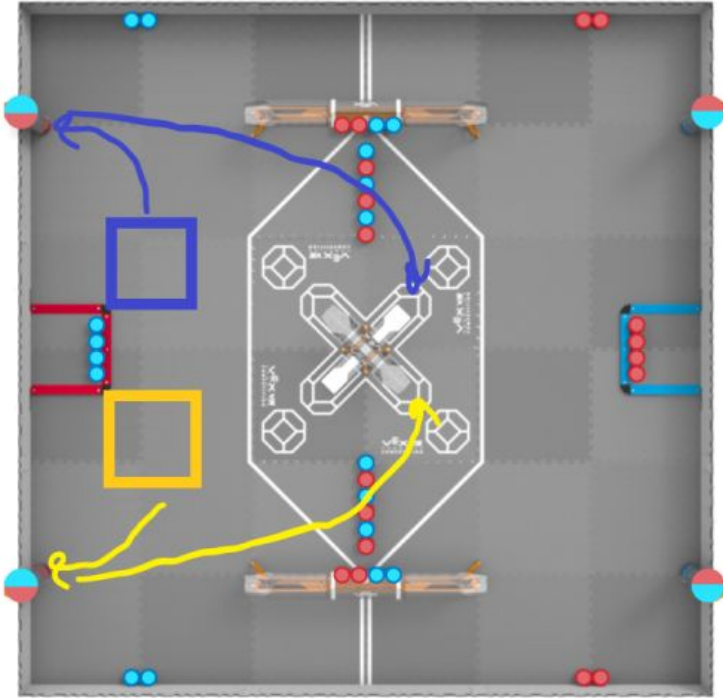
Autonomous Match: Center Goal Rush

✓ 15" ✓ 24"

Goals

- Guarantee the autonomous win very quickly
- Used when the opponent tries and rushes the Long Goals very fast, only scoring 4 in the Long Goal control zone, & does not score blocks in the center"

Field Mapping



Both Robots

1. Drive to match loader
2. Intake 3 Red Blocks & 3 Blue Blocks
3. Color sort out 3 Blue Blocks
4. Intake 6 Match Loader Blocks
5. Score in Middle Goals on the opposite side & sit there

Pros

- Guarantees a win against any team that goes for ultra fast Long Goal control
- Blocks the center goals if they try to go for a last second center descore

Cons

- Robots might hit each other in the neutral zone