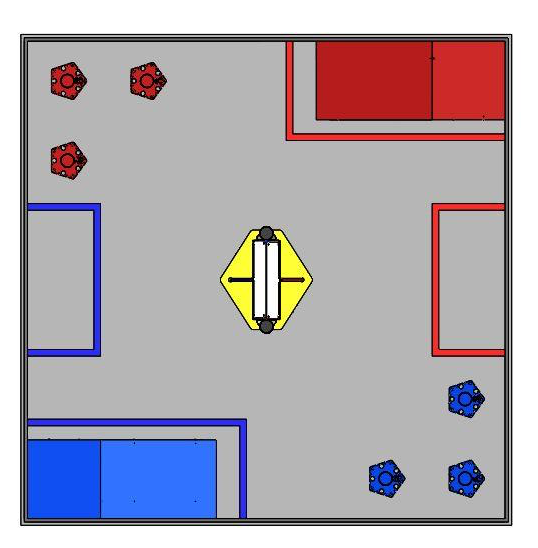
Control Award Content Sheet

|  |  |
| --- | --- |
| Team # 7155 | Team Name: The Quantum Potentials |



Autonomous:

The code has three instance fields: *startOnRamp*, *knockDownCascade*, and *scoreInGoal*, which when set to true tell the code that the robot will start on the ramp, knock down a cascade of balls, and score balls in one of the rolling goals respectively.

*Starting on Ramp, Knocking down Cascade of Balls, and Scoring in a Goal*

1. Drive off of the ramp
2. Begin to record the robot’s movements
3. Drive to the IR Beacon using two HiTechnic IR Sensors
4. Use encoders to accurately drive the robot to the pole to knock down the balls
5. Playback the robot’s movements and return to the bottom of the ramp.
6. Drive towards the closest rolling goal to the ramp
7. Hook onto the goal with the robot’s hooks
8. Score the two preloaded balls into the goal
9. Drive with the goal hooked to the robot onto the ramp and into the parking zone.

*Starting on Ramp, Knocking down Cascade of Balls*

1. Drive off of the ramp
2. Drive to the IR Beacon using two HiTechnic IR Sensors
3. Use encoders to accurately drive the robot to the pole to knock down the balls

*Starting on Ramp, Scoring in the Goal*

1. Drive off of the ramp
2. Drive to the first rolling goal
3. Hook onto the goal with the robot’s hooks
4. Score the two preloaded balls into the goal
5. Drive with the goal hooked to the robot onto the ramp and into the parking zone.

*Starting on Ground Parking Zone, Knocking down Cascade of Balls, and Scoring in a Goal*

Driver Controlled: