Algorithm – Detailed, specific steps (embedded in SDD-System Design Document)

1. Start at the yellow square with the robot being green.

2. The robot will say, "Ready set go," and then wait.

3. It will start it's course by rolling at 0 degrees at 63 speed for 10.5 seconds.

4. The robot will be delayed for 1 second.

5. Then the robot will roll at 90 degrees at 61 speed for 6 seconds.

6. The robot will be delayed for 1 second.

7. Then the robot will roll at 180 degrees at 63 speed for 10.5 seconds.

8. The robot will be delayed for 1 second.

9. Then the robot will roll at 270 degrees at 61 speed for 6 seconds.

10. The robot will be delayed for 1 second.

11. Then we will change the robot's color to red.

12. Finally, the robot will say, "I'm done and I need water," and it will stop.