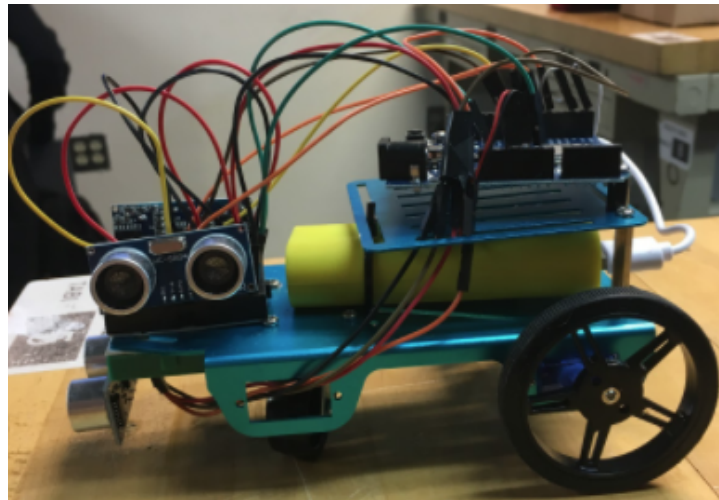# Robot Project

Throughout the course of the semester, we were given a series of tasks and requirements for our robot to complete. Based on these tasks, we had to adjust our robots mechanical parts as well as code in order to excel at the task. Below is the configuration of the robot for the final task.

Final Task

The robot needed to sense its location in the arena using the given motion sensors. This was made possible by utilizing the middle wall in the area when making the code in Arduino. Once the robot knew where it was, we programmed it to hit the targets assigned to us autonomously

The Arena & Final Challenge Objectives

-Program the robot to navigate a given course, hitting targets in a predetermined sequence

- The sequence given to them was BDAC

- Start from the point labeled "4" in the diagram

- Could not hit the walls or bumpers out of order, or else they will be penalized.

- 6 inch height limit

- Completely autonomous

- 2 minutes to complete task