

Deviations and their justifications

1. GRIPPER LIFTING MECHANISM REMOVED

In the process of assembling the physical robot, we found that lifting (through an arm) the gripper along with the ball was unnecessary as the gripper served the purpose properly without being lifted. The frictional force wasn't as powerful a factor as we assumed. The servo motor which was supposed to be used for this purpose was also removed. The gripper is now being used to secure the ball/disc in place while the base pushes it (push-gripper).

2. SANDPAPER NOT USED IN GRIPPER

Sandpaper wasn't used in the gripper as the gripper was functioning properly even without it.

3. TWO STOPPERS USED IN LOADER

Contrary to our prior judgement, two separate stoppers were required to hold the two balls in order to ensure more accurate functioning.

4. ALIGNMENT OF CASTOR WHEELS CHANGED

While making the robot's mechanical structure, the castor wheel alignment had to be changed to accommodate the unanticipated large weight of the loader and to ensure proper balance of the robot.