2/12 Diary - 9

Today, after a group discussion. we attempted the first solution of installing a PC board on the upper beam of the intake roller. bending towards the inside of the Robot. This PC board proved effective in deflecting incoming Triballs. During testing. we also discovered that this PC board can serve as a limit mechanism. allowing the elevation arm to clear any Triball that accidentally enter.

Therefore. this solution meets all of our functional requirements. and we decided to finalize and adopt this design without further testing.

In response to the issues identified yesterday. we made corresponding modification. By adding a 1:3 gear reduction mechanism. we successfully increased the throwing force. allowing the loaded Triballs to fly over the barrier pole. and reach the opponent's scoring Zone. Additionally. this modification alleviated the pressure on the motor. enableing it to operate continuously for longer period.

However. we encountered a new issue due to the increased tension in the rubberbands. The original thin

project V5 designed by: Steven witnessed by: Kevin

date: 1.2.22