

So, we switched back to using a mushroom head. We also tried to use 2 self-locking mechanism for hitting the Triballs, but we later found the mushroom head better.

Additionally, we redesigned the Triball-storage compartment. We used two 2x7 L-shaped beams connected to aluminum plates for fixation, forming a V-shape. We used an L-shaped PC board as the front limit to ensure that the ball storage compartment could perfectly wrap around the Triballs and provide the optimal placement point.

11/1 SIDE ELEVATION DESIGN

During the last competition, we noticed that another team's slightly tilted side elevation mechanism performed better. Therefore, we decided to use 2 positions and ropes for dual side elevation, and use nut columns as limiters to achieve a tilted state for the side elevation arm.

The tilted state has some advantages:

- 1. It allows Robot to have a higher contact point with the pole during the competition, which provides a higher center of gravity and makes the



project

V7 elevation

designed by:

Steven

witnessed by:

Joker

date:

1.1