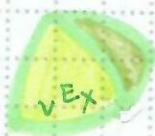


# Brain Storm

version  
5.0



14/11

In the previous Shanghai competition, our Robot performed exceptionally well. Our C-level design, as well as the inclined surface and pulleys at the rear, achieved impressive results.

Building upon this success, we have decided to participate in the Skill Challenge at the national competition and focus on the design of the catapult mechanism. However, since we have already utilized all the available 88W for motors, we need to consider how to conserve motor resources.

## ① 1. Allocation of catapult motor

Catapult



Currently, we have 2 options: One is to retain one of the two small motors (5.5W); And the other is to modify the high-hanging mechanism to use a smart motor. After calculations, we determined that a 25:1 gear ratio is required for the smart motor to lift

project

Brain Storm

designed by:

Lyric

witnessed by:

Kevin

date:

11.14