Rope-way Rush (Ages: 11 yrs. To 17 yrs.)
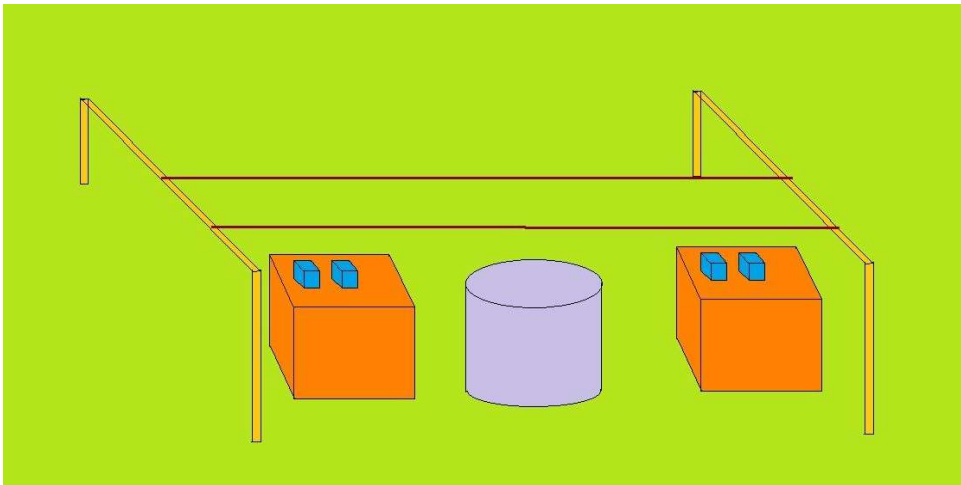
Game Description

Problem Statement: Want to test your adrenaline! Jump off your lazy beds and start making a robotic system (wired or wireless) that can be used to collect objects on its way and drop it on a specific platform, while traversing on two ropes within the given time limit. The highest to sore and the fastest wins the trophy.

Team size: Minimum 2 and maximum 4 members.

Arena Specification:

1. The size of the arena is 8ft. in length and 4ft. wide at a height of 2.5ft.
2. Wooden rims will be provided with ropes tied at both the end two balance the robot. However, teams may bring their own ropes if they want.
3. The below given diagram is a typical representation of how the arena will look like:

The Task:

The bot has to go over the ropes, collect the objects from **Station A**, and **Station B**, and drop at the **Drop Point** within a time span of 3.5 mins.

Bot Specification:

1. The size of the bot should be not more than 25cm X 25 cm X 25 cm (LxBxH). A tolerance of +5% is allowed.
2. For wired robots external power source of 220 volt A.C. will be provided, so the teams have to bring their own power supply for the bot such that the output power reaching the robot should not exceed 24 volts.
3. For wireless bots teams have to bring their own controller.

Scoring:

- For every successful picking up of objects: 25 points
- For every successful dropping on the platform: 25 points
- Object drops from **Drop Point**: -10 points
- Time out of 1min(if taken) : -10 points
- Restart: -20 points

Therefore, Maximum possible score: (4 x 25) + (4 x 25) =200 points.

Note: The decision of the referee is final.