

Question 1 (c) : additional thing/component that you can add to make it unique .

According to me the Unique thing that I be gonna add to it , be the sensor to actually sense the environment , like its surrounding to actually determine its head position of height , and set it according to the environment or surface , or control speed according to that ,

Terrain detecting System :

“Lidar” and “ULTRASONIC SENSOR” and “Infrared” can be use to detect the terrain .

Can also embedd ai in to actually to do calculation according to the terrain and set its speed and head position.

Like For example in mountain :

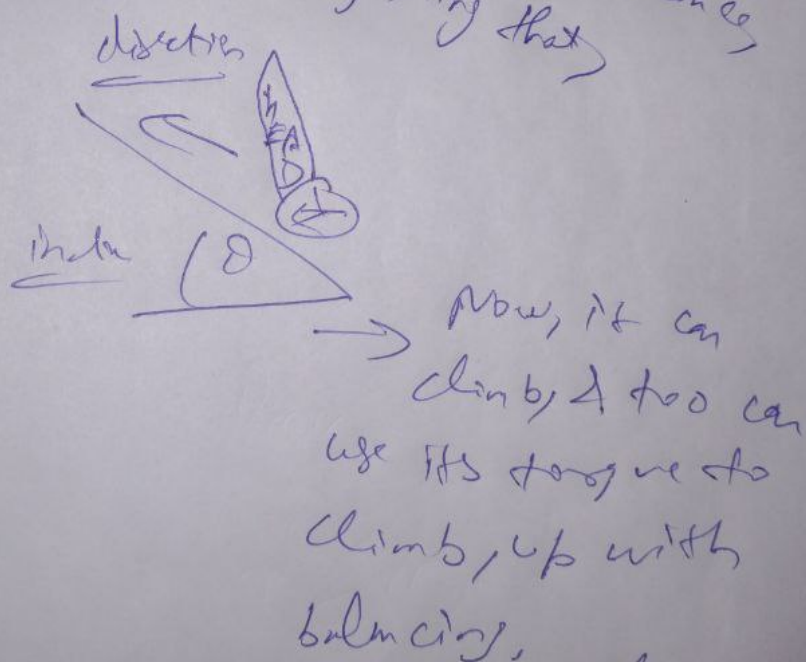
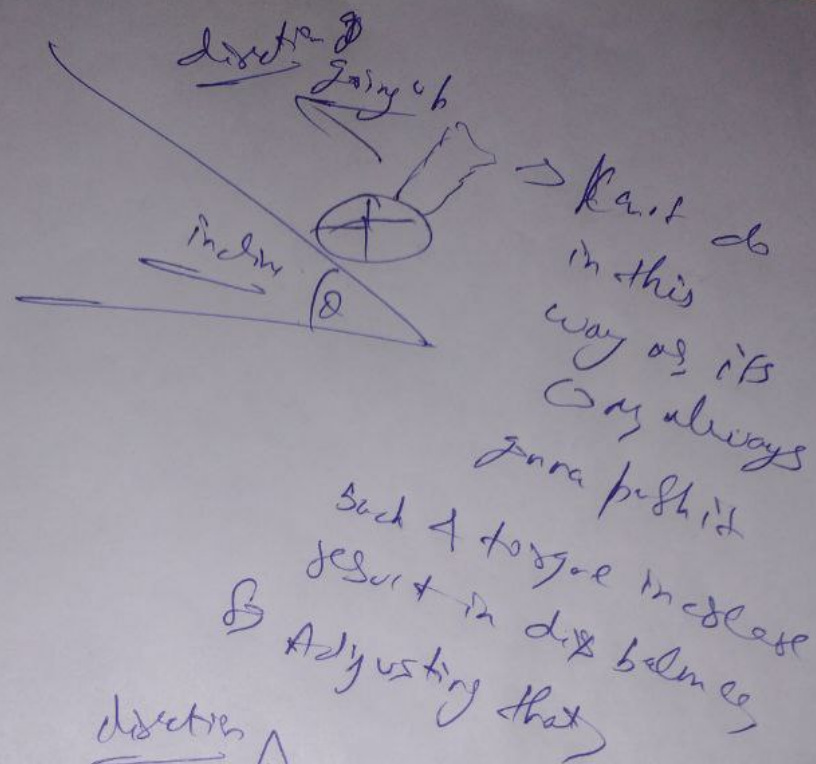
if the its too steep then can check its head position , like on a 45 degree incline , it has to set its head position , and set the torque , set the speed , orientation , acceleration , according to that.

Like adjusting its COM and successfully complete the incline too.

That only be happen by sensing the Terrain it is going to .

Also embedding the algorithm according to that in it ,

like if this terrain occur or recognised that , then follow this algorithm to maintain the balance , by adjusting or fusing the accelerometer and the gyroscope.



All happened because of the
Terrain Detecting System.

