

Collect Apple



The name of the contest :theme it up

Number of the participating team:2

Names of team members : safwa ahmed ail . Mariam
Ghareeb Hassan

Group number:

School name: Suez STEM for Petrochemicals

We have turned the game into reality

From mission to the reality

The real playing field consists of a square of 12 feet by 12 feet to be this place where the robot does its work or the permitted area and there are two teams and therefore there are two alliances one of them is red and the second is blue in order to distinguish the robots from each other
The game period has a hue in which the game is executed and this time is divided into two periods only.

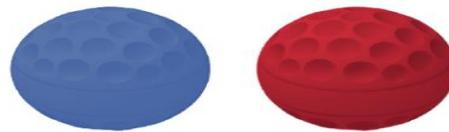


VEX
ROBOTICS
COMPETITION



The game period has a hue in which the game is executed and this time is divided into two periods only. The first is that the robot itself controls the game, meaning self-control, and its duration is 15 seconds. The second period, control is from the student or the person who owns the robot or programmer and its duration and accuracy is 45 seconds. The goal of the game is to perform Each team plays to score goals and has a high alliance score

The robot takes the balls from the game ground to the baskets
There is in the game something similar to a basketball called goal so that the robot puts the ball inside it, and it is designed like a cylinder, and there are only nine of it and it is made of plastic and four rings are on top of each other and connected to each other There are three of them in the area of each alliance and the balls also have colors and those colors are red and blue like the color of the teams and are of the plastic also empty of Inside The ball will be three and six out of ten inches, and there is a small hole in it There are 32 balls 16 red balls and 16 blue balls divided equally for each team



顏色得分球 Ball
(藍色*16個、紅色*16個)



得分塔 Goal
(共9個)

The best part of this research came and it is that the robot: the robot is made of fix parts to play in this stadium designed for it, and its engineering design must be high and one of the participants in the competition programs him to play and he must have high skill for that.





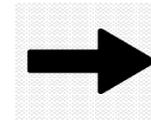
We thought about what that game could actually be and arrived at the following

Balls : apple

Goal : Basket of apples

Perimeter field: garden

That is, we named the elements in the stadium with names that exist in reality



Realistic scenario that simulates reality
The robot collects the apple crop from
the garden into the apple basket
This is because we badly need someone
to collect apples in the gardens without
fatigue or effort and at the same moment
save money

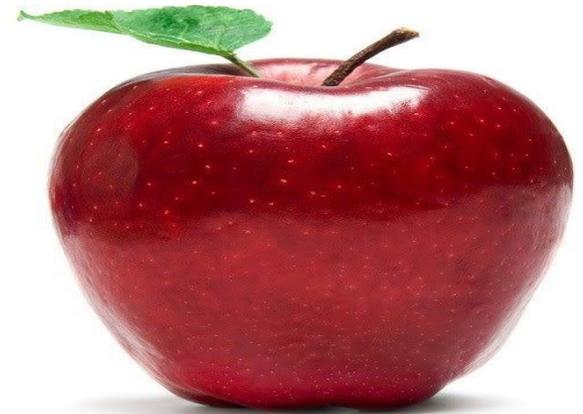
The purpose of this visualization is to
collect the apple crop
He picks apples from the garden and then
puts them in the baskets

This is the real imagination of the thing in
the game

And we are still based on the competition
to avoid mistakes



This means that if the farmer leaves the robot in the orchard, he is able to collect the crop and distinguish between apples that are good for humans and vice versa by distinguishing the colors in the game between blue and red, and that the healthy apple is red and the rotten apple is brown and he collects the healthy apple and put it in the baskets



And if there are problems, we immediately think of a
solution to them

We hope that the research will benefit you and have
brought you sufficient information about the
competition

