

Vex Robotics

Competition Coin Toss

Team 14241A
Robow Archers

Bhava, Sriyan, Shrunu, Raj, Aneesh, Aaryan, Akhilesh, Prathkey,
Ruthvika

Level V Robotics
Charlotte North Carolina

Introduction

Welcome to the 2022-2023 Vex Robotics competition Season

This year's Competition is called VRC Coin Toss

VRC Coin Toss is a Head to Head Game that is played by two alliances



Welcome to the 2022-2023 Vex Robotics competition Season

This year's Competition is called VRC Coin toss

VRC Coin Toss is a Head to Head Game that is played by two alliances in a head to head bot brawl (Here we have a photo of the field with 2 robots.)

One Red group team and one Blue group each team is made up of a two teams. (Here we try to have a photo with red and blue to show the colors.)

The game object is Coins these coins are 140mm in diameter and 20mm thick. (Here we should have a disc spinning then it shows the sizes.)

There is a total of 60 Coins 38 Coins on the field (We put the photo of all the disc's in one basket.)

Each robot get two pre loaded Coins and each alliance gets 7 match loads per alliance.

bots

The high tower is worth 5 points and the low goal is worth 1 point but the low goal under your team goal is 1 point for the other team. (Here we put a clip of the goals.)

You gain extra points from having the rollers on your color, the rollers are 250mm long and 50 mm in diameter. (Here we put the clip of the robot spinning the roller.)

Autonomous

Each match begins with a 15 second Autonomous period. In this time the robot navigates without drive input. (Here we put a clip of the robot moving)

For completing the autonomous period you get Autonomous win points

To complete the autonomous period you need to get own both rollers on your side and you need to score two Coins into your tower (Here we show a clip of 2 rollers.)

Driver control

The 1 minute and 45 seconds is the driver controlled period (Here we put a clip of the robot being driven.)

This starts when the autonomous bonus winner has been determined.

The driver now has full control of the robot they can pick discs from the ground or get match loads from the loader. (We could show a disc here)

Near the end the timer ends and the expansive period begins this is when robots get 3 points added for each square covered. (Here we show our robot shooting the expansion mechanism)

For each tile the robot is covering you will gain Points. So during the last few minutes of the match there will be no expansion limits that are horizontal.

Outro

During this challenge there will be 2 sections to go through in order to reach worlds which is the competition where you will compete with other countries.

The first 2 sections are qualifications and states in order to get into states you must be top 30 in the qualifications and in order to get into worlds awards that you can receive that can also qualify you for worlds. 1 Excellence Award winner, 2 Tournament/Teamwork Champions Award, 1 Design Award winners will qualify to the world championship event.