COGNIZANCE 2K24

Faculty of Technology & Engineering

Chandubhai S Patel Institute of Technology

Department- Electronics & Communication Engineering

Title of Non-Technical Event: Wire Loop Game

Event Coordinators:

Faculty Coordinators

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Event Description:

A wire loop game is a game which involves guiding a metal loop (a 'probe') along a serpentine length of wire without touching the loop to the wire. The loop and wire are connected to a power source in such a way that, if they touch, they form a closed electric circuit. The circuit is connected to a light or sound-emitting device of some sort, so that when the loop and the wire touch, the light-emitting device will light up, and the sound-emitting device will make a sound, traditionally a buzzing noise. In commercial implementations of the game the wire is usually bent along a single axis.

Team Specification:

No. of Participants per entry/ Team: 01

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Task:

Refer "Rounds"

General Rules and Regulations:

- Game players start at one side of the coat hanger wire obstacle. They maneuver the wire loop along the hanger wire until they reach the other side without completing the circuit. If the wire loop touches the hanger, the circuit is closed and the buzzer will sound the the LED will light up. If there are groups of kids more than one game could be made, then the teams could race each other one at a time. If a team member touches the side and sounds the buzzer, they must start over. If only one game is made, time how long it takes for each player to successfully finish without sounding the buzzer. The winner is the one who can complete the game in the lowest amount of time.
- To make the game more challenging, make the loop of wire smaller. Also, try bending the coat hanger wire more to add more difficulty.

Rounds:

- 3 Rounds
- Challenge #1: Time yourself and see how long it takes you to move the loop all the way across the bent wire (buzzing is ok for this round)
- Challenge #2: Time yourself again. This time, every time it buzzes, add 5 seconds to your time!
- Challenge #3: See if you can move the loop all the way across the bent wire with NO BUZZ!

Event Rules:

- Each round has maximum 50 Points
- No Trail Round
- Judges Decision will be final.