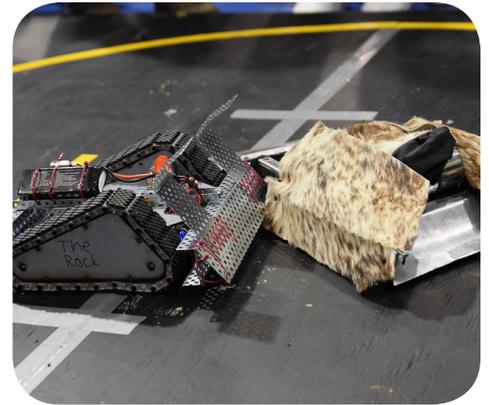


SUMO Survivor



Objective

- Objective: The objective of this challenge is to design and build a radio-controlled robot that can survive for 3 minutes against another robot inside of a 12-foot diameter ring. Robots must aim to push opposing robot out of the ring. Robots will compete 2 at a time in a 3-minute round. The remaining robot after the 3-minute mark will advance to the next round.

Parameters

- The maximum weight for each robot is 15 pounds including the battery
- Robot must fit within a 4-gallon crate that is 13" x 13" x 11" at check-in (but can be engineered to include extensions)
- Any extensions must remain deployed once they have been initially deployed
- Robots cannot have any offensive weapons or projectiles
- Robots cannot punch, flip, strike, destroy or disable opposing robot
- Robots can shovel or scoop but shovel cannot actuate other robot

Notes

- All robots must be weighed and checked for correct sizing before competition begins. If they do not meet size or weight requirements they will be immediately disqualified.
- If robots become entangled without movement for 5 seconds, they will be separated and returned to the starting point. If the robots are tied at the final 3-minute mark, they will start again and be given an extra 1-minute. If no robot is pushed out of the ring during this tie-breaker period, the judge will determine which robot had the final advantage and will proceed to the next round.

Materials

- No glass can be used in the robot
- No offensive weapons including fire, hammers, spinners, saws or rams
- Robot must meet weight requirements and utilize a radio control