



Off Road Racing

Official 2012 Rules and Participant Guidelines

Level: Intermediate/Advanced
Number of Robots: 1 per participant
Time Limit: 1 minute maximum
Robot Weight: Any
Robot Dimensions: no larger than 8.5" x 11"
Robot Control: Autonomous
Number of robots competing per round: One
Controllers: One
Number of Motors: Maximum of Two
Competition: Best time wins

Summary: The objective of this event is to stay on the track, go over barriers, cross the finish line and come to a complete stop within 3 feet of the feet of the finish line.

Event Rules: All participants line up with approximately 1" of their robots extending over the starting line. [Note: If your light sensor is not over the line when your robot starts your program needs to account for passing over the starting line.]

1. Once a robot starts the course, it must remain autonomous or be disqualified.
2. A robot that wanders off the race course will be disqualified.
3. A robot must be programmed to wait 5 seconds after the "RUN" button is pressed before moving down the course.
4. Any robot not waiting the five seconds will be given a "false start". Each robot is granted one "false start" per round. If the robot false starts twice it is disqualified.
5. If the robot must be reprogrammed for any reason it is disqualified.
6. A robot is not allowed to increase its length during the race.
7. Robots must stop after they cross the finish line. Robots who do not stop within 3 feet after the finish line, forfeit the heat.

Scoring: Robot performances are timed. Timing begins when the robot starts movement and stops when it comes to a complete stop after crossing the finish line. In the event of a tie, winners compete against one another in a single elimination heat. First to come to a complete stop after crossing the finish line wins.

Playing field: 3' wide X 16' long white track (butcher paper), with a 1" black electrician's tape line traversing the width at the beginning and end to mark the start and finish line. Sections of 1x4 and 2x4 lumber are placed as shown below at 4 feet from start, 8 feet from start, and 12 feet from the starting line. The 1x4s are placed flat so the height is approximately 3/4 of an inch and the width is 3.5 inches. The 2 x 4s are also placed flat so the height is approximately 1.5 inches and the width is 3.5 inches. Unfinished lumber sections are secured to the butcher paper using either duct tape (on bottom of boards affixed to butcher paper) or bricks (on both sides of the boards off the track area).

