

2010 TekBot Triathlon Rules

May 14th, 2010 by the Kelley Engineering Center Loop Artwork

Schedule of Events:

Noon - Entries for the Artistic Challenge and Innovation Contest accepted

1 PM - Engineering Expo begins

1 PM - Agility Race is available for trials

4:15 PM - End of judging for Artistic, Innovation, and Agility Events

Artistic Challenge:

The judging of this event is based on public opinion. Each person who wants to participate in judging will be given three marbles (or similar object). Each entry will have a container placed next to it so that judges can place a marble in their top three choices. At the end of the event, the containers will be weighed or counted to find the top three choices.

Innovation Contest:

Judging will be conducted by faculty, staff and industry members. A scoring guide will be given to each judge allowing them to score in three areas; creativity, execution, and complexity. Scoring guides will be collected and averaged to find the top three.

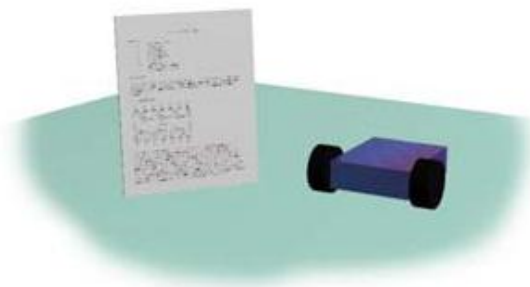


Figure 1: A example of a presentation for the Innovation Contest

Agility Race

For this event, each entry will need to complete a track in the shortest possible time. Autonomous and remote controlled robots may enter. The best time wins!

1. Each entry will be allowed a maximum of 2 minutes for the race.
2. Each entry must use at least 50% TekBot hardware. (Motor controllers, frames, motors, microcontroller boards, or any other hardware supplied in a course kit is accepted.)
3. Robots may be autonomous to avoid any penalty.
4. Robots may be controlled wirelessly, but a 30 second penalty is added to the final time.
5. Robots may be controlled with a wired remote, but a 50 second penalty is added to the final time.
6. Judges decisions are final.

Arena Information

1. The surface of the track is plywood painted white.
2. There is a black line painted in the center of the intended path. This can be used to guide an autonomous robot.
3. There is a faint green line that marks a short cut.
4. The arena will be set up in Dearborn 203 during the week of the Engineering Expo.