2012 TekBot Triathlon Rules

May 18th, 2012 by the Kelley Engineering Center Loop Artwork

Schedule of Events:

10 AM - Entries for the Artistic Challenge and Innovation Contest accepted
11 AM - Engineering Expo begins
Noon - Agility Race is available for trials
4:00 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 small voting objects (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. The arena will be set up in Dearborn 203 during the week of the Engineering Expo.