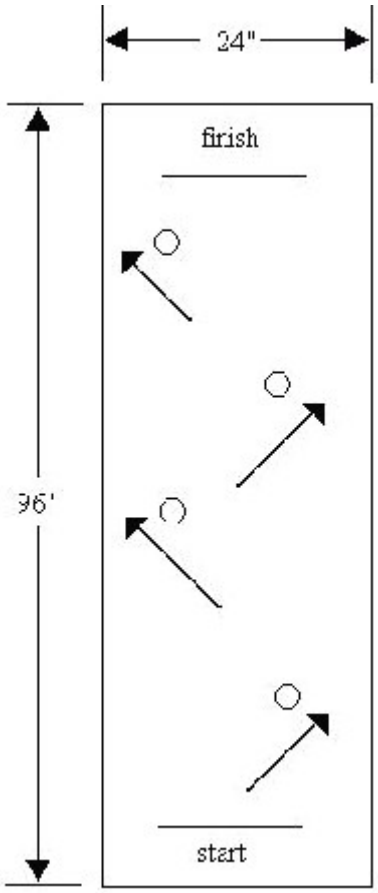
ROBOTICS CHALLENGE

Challenge Description

“Slalom”

Design a robot that can maneuver its way through the slalom course quickly. The robot should not touch the markers.

Specifications



- Robots must be made with LEGO Mindstorms Robotics Invention System and be programmed with Robolab programming environments.
- Robots can consist of a maximum 1 RCX, 8 Wires, and 3 motors.
- Nothing can be added or removed from the robot during a round.
- No non-lego parts are allowed
- Challenge is maximum **2** minutes long (Note that this is shorter than the usual challenge)
- Challenge starts at the designated start area.
- The markers are evenly and predictably spaced.

Adaptations

Scoring

80 point challenge
-10 points each time robot falls off the playing area
-5 points each time a marker is hit.
Robots may not be picked up or corrected for this event
Up to 5 points will be deducted from the total score for the total amount of damage sustained by the robot, as determined by the judge.

Hints and Tips

Since you cannot use touch sensors to find the markers, you can use light sensors (although this will cut down your time). Since the markers are predictably spaced, you could program the robot to just go around where they are expected to be.

David Jones 7/22/2005