

## Contest Six: *MazeWorld/Exhibition 2.0*

ROBOTIC AUTONOMY  
Summer 2002

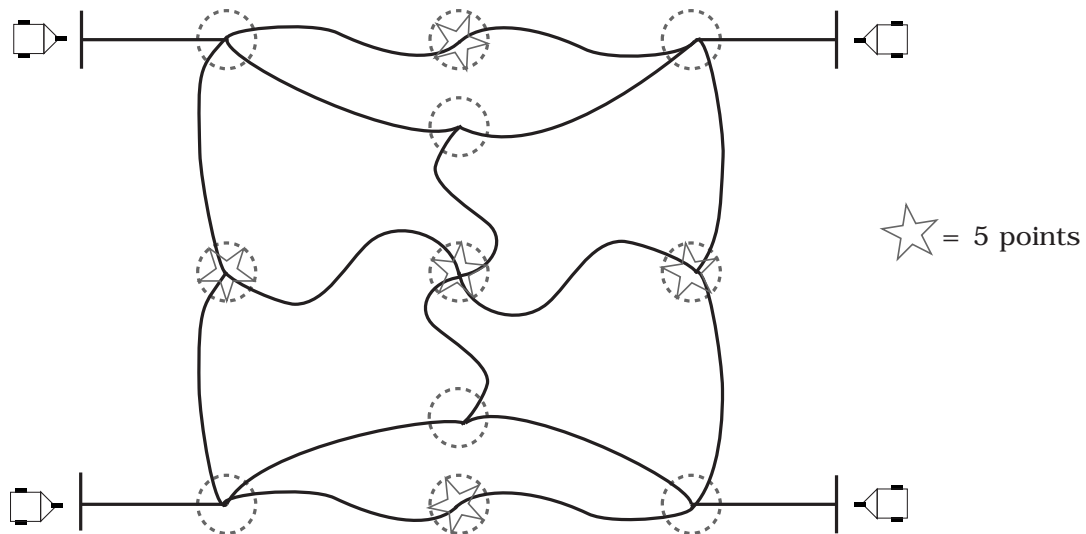
This was the penultimate week of *Robotic Autonomy*. You all have a successful line follower now, and so we will have a contest that allows four teams to test their TrikeBot's line-following mettle on a difficult course.

### MazeWorld

A maze of lines, approximately 30 by 35 feet, is set up on the parking lot near Building 17. In this maze, four robots race through circular scoring nodes to collect points. TrikeBots that collect 20 points are finished. You have 15 minutes to collect points by visiting four scoring nodes once, worth 5 points apiece. The scoring nodes and other similarly shaped control nodes are located throughout the maze.

When your TrikeBot is inside the nodes, you may guide it as you choose as you select which line to follow. Outside the nodes, your robot must be completely autonomous as it follows a line. These lines are the only safe means to travel through MazeWorld. If your TrikeBot leaves the line or becomes stuck, you must return it to your starting position and will forfeit all of your points accrued thus far.

### Initial Game State



### Exhibition 2.0

You will demonstrate the current best version of your Exhibition: version 2.0. Those teams who did not exhibit on Wednesday should exhibit on Friday. Take this opportunity to demonstrate key capabilities and further refinements of your exhibition. Remember, the whole thing must soon be done for your final project!