

Line Follower

Effective January 16, 2010

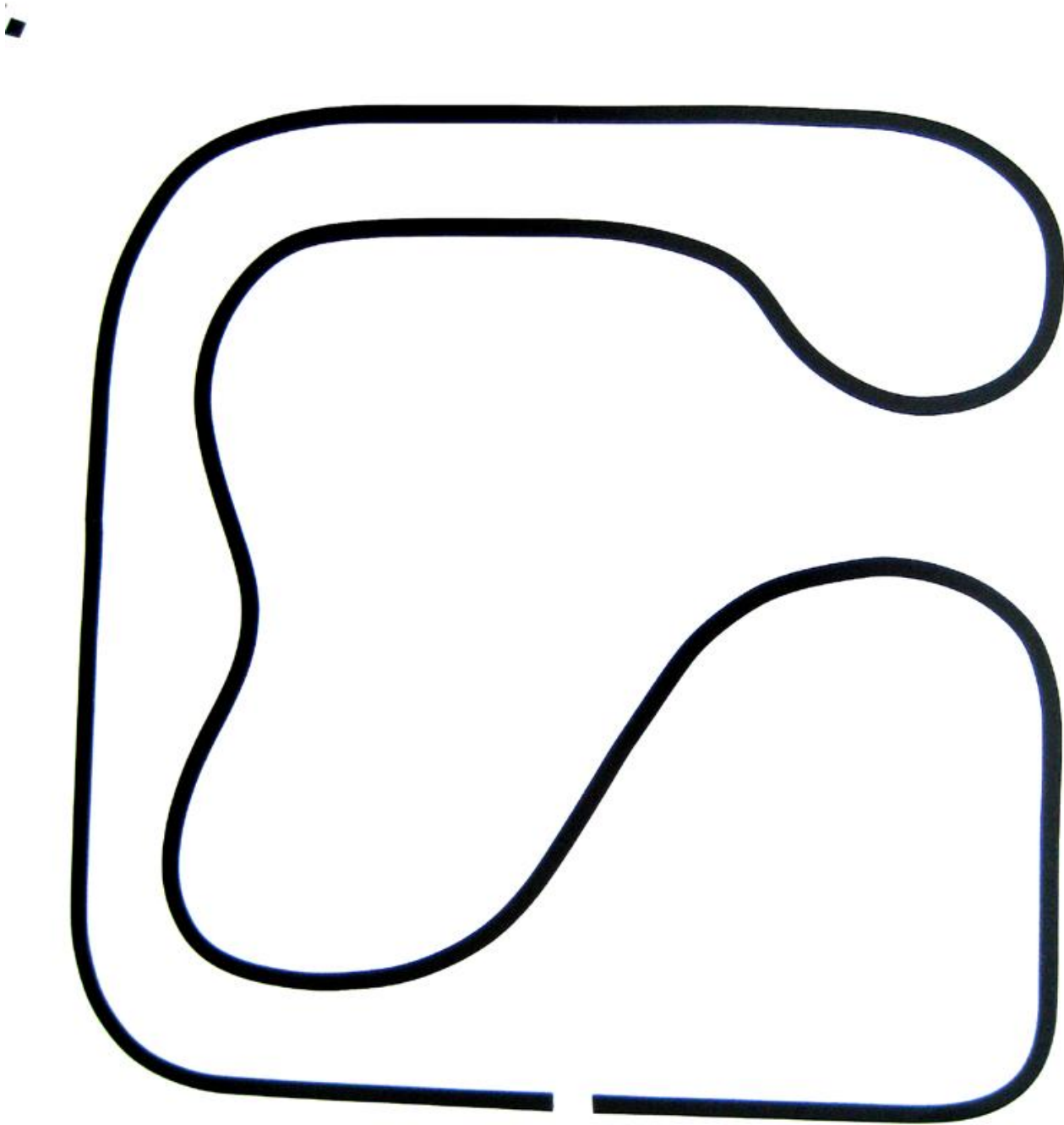
- Code: LFA
Control: Autonomous
Open to: All up to Senior 4
Max Robot Size: 20 cm wide
Weight limit: None
Playing Field Size: 4 arenas, each are 4 foot x 4 foot square
Playing Field Finish: Matt White Melamine finish with 18 mm wide flat black stripe.
Note: That in places where the line changes direction, the width of the stripe may vary between 0 and 36mm wide.
Playing Field Surface: Arenas #1, 3 & 4 are flat, while arena #2 is 65% flat with two 15 degree surfaces.
Explanation: "Line Follower" requires you to program your robot to follow an 18 mm wide black line around each of four progressively harder arenas.

Rules:

- Line Follower is for autonomous robots only.
- Line Follower is open to all Students up to Senior 4.
- The line shall be no closer to the boundary than 12 cm. but may draw close to or even cross another black line.
- There is no weight or height limit.
- The arenas are numbered 1 - 4 and each competing robot will be expected to attempt all four arenas.
- Each arena will have a 1" high wall around the perimeter to constrain runaway robots.
- Each robot will have up to 3 minutes to complete each arena
- Following a failed attempt, a competitor may request from the judge the ability to make a second attempt at an arena. This is not a right and will be granted only at the discretion of the Judge and dependant upon scheduling.
- Competitors may elect to take a break between arenas to recharge or re-tweak sensors or programming. A test track that includes an example of each track detail will be available for adjustment and testing.
- *It is understood that contestants may require significant assistance in the design and/or construction of the Line Follower robot and that they are encouraged to seek out suitable expertise. Manitoba Robot Games planning committee are prepared to help make suitable connections with the electronic engineering community in support of Manitoba students. Contact Herb Reynolds for more information (Herb's contact information is available on the MRG webpage).*

Line Follower - Arena #1

Note: This is a representation only. There may be minor differences in the actual playing field.



Line Follower - Arena #2

Note: This is a representation only. There may be minor differences in the actual playing field.

