

RCAP CoSpace Autonomous Driving

A POSTERIORI

Play · Experience · Learn

What is Autonomous Driving?

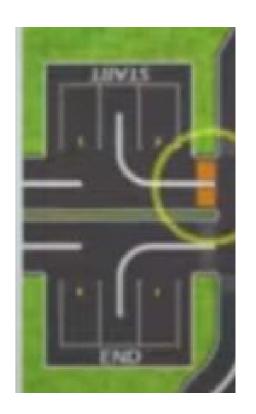
- Video
 - https://www.youtube.com/watch?v=pdVMRIEiQwI

Past Game Map



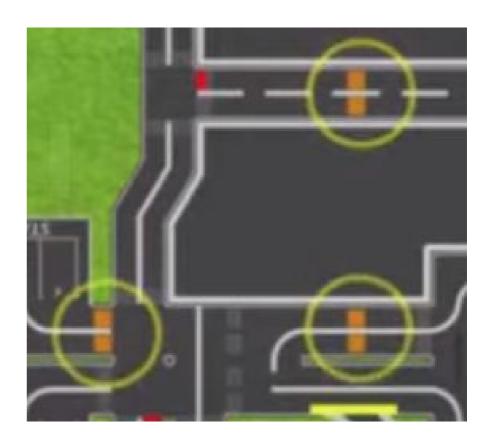
Rules

- Maximum of 8 mins
- Begin at "Start" Station
- Ends at "End" Station



Rules

- At each waypoint (orange)
 - Stop for 2 seconds
 - Flash LED

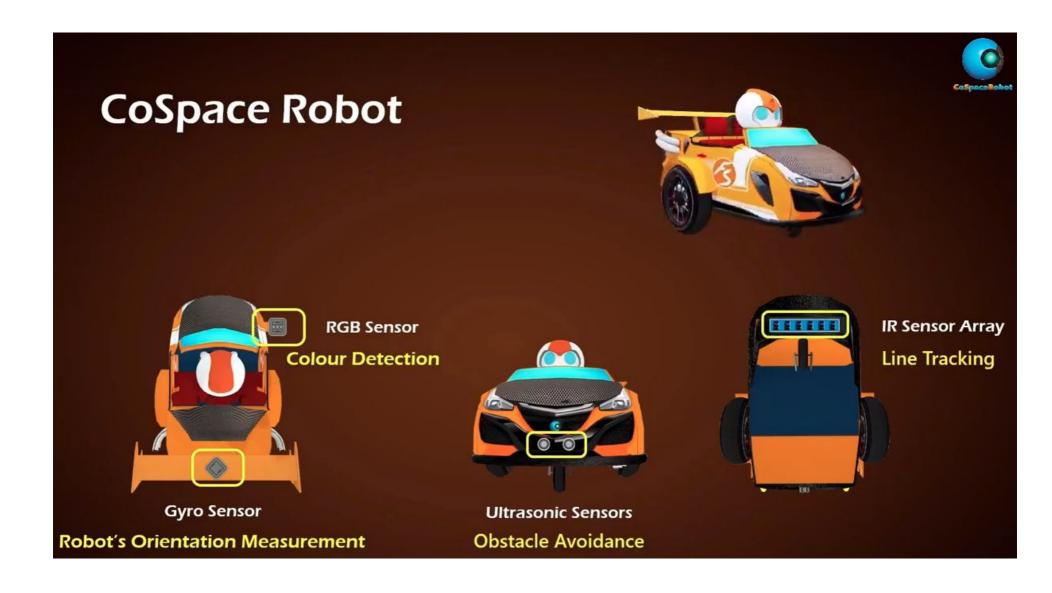


Scoring

- Tier 1
 - Passes all waypoints
 - Shortest time wins

- Tier 2
 - Did not pass all waypoints
 - Winner decided by most waypoints, followed by shortest time to last waypoint

Robot



Robot

- Can be programmed using...
 - Graphical User Interface
 - Python
 - C

Need to submit...

- Robot program
- Team Description Paper
 - Template available
- Powerpoint Presentation
 - Guidelines available
- Technical Demonstration video
 - Some past submissions available on YouTube

Team

- 1 or 2 members
- U19 Category
 - At least one member is age 13 to 19 (as of 1st Jul 2021)
- U12 Category
 - Both members below 13

Timeline

Early March: Release of software

- 22 May: Submission for qualification
- 31 May: Announcement of Finalists
- 3 Jun: Video submission for Finalists
- 12 Jun Finals

What you should do...

- Plan the route
 - Keep it short and minimize turns
 - Tip: You don't have to follow the line throughout; you can take shortcuts
- Break up the route into segments
 - Robot should do ONE thing per segment
 - Each segment must have a clear start and end condition
- Prepare useful functions
 - eg. Line following, Turn left, Turn right
- Try out the mission

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