

Planning 3

(Robot Operating System)



Task1:

Subscribe to the topic /plan and give any goals to the tb3 simulation and determine whether the path is straight or curved. If the path is straight publish a string message “The path is straight”, else if the path is curved publish a string message “The robot is turning with a curvature <c>” where c is the curvature of the path.

Hint: supporting functions.py contains the function required to calculate the curvature between 3 points.

References: https://en.wikipedia.org/wiki/Menger_curvature



Instructors repo Link:

- 1- <https://github.com/ahmedgharieb1>
- 2- <https://github.com/M-abdeen>

Material repo :

https://github.com/ahmedgharieb1/ITI_LSV_ROS2

