809T Assignment 7

Autonomous Robotics

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Contents

Chapter 1

Question 1:

1.1 Straight Line Video:

Video link: https://youtu.be/JdslKOvRkHY

1.2 Straight Line Video:
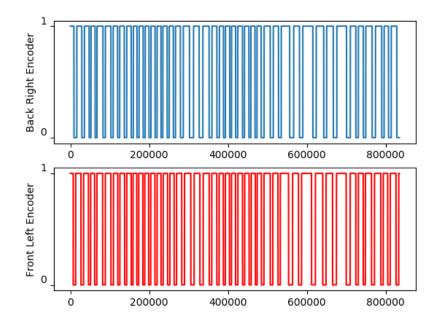
Video link: https://youtu.be/zOJ6dafI99I

1.3 Left Right Turn Video:

Video link: https://youtu.be/kkG01csOY5Q

1.4 Plot:

As we can see from the graph the encoder counts increase to 1 at every iteration of the while loop that checks to make sure that the counts are same and then it allows of requal encoder counts so that the robot follows a straight line due to the output given to the motors, this similar counts is due to the control loop that is provided inside the loop that equalises the counts based on the error value.