EECS 464 HANDS ON ROBOTICS
PROJECT 0 FINAL REPORT

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1 Background

1.1 Problem Description

The main object of this project is to build a robot that is able to navigate around a figure eight track as fast as possible without being disqualified. The basic requirements include:

1. The robot can move 1 meter forward
2. The robot can rotate 90 degrees
3. Fits in a 60 x 15 x 30 cm box.

Some of the constraints that need to be considered are:

1. Only three Dynamixel motors are allowed
2. No fully rotational parts are allowed
3. The track is carpeted
4. The robot is tethered by controller.

1.2 Literature Review

1.3 Alternative Prototypes

1.4 Final Design

2 Result

3 Discussion