

# Lab 4 Report: Dylan Money

Lab 4 required us to take turtlebot and make him independent. Using the sensor data from turtlebot we needed to make him navigate on his own. The first step for me was to familiarize myself with reading the sensor data so I did the first part of the assignment which was outputting the different types of sensor data. Next I worked on the reversal. This required me to take in the sensor data from the front of the robot and if it was within 0.3 to make the robot move backwards. I started by implementing a move forward statement and if the sensor read anything under 0.3 to go in reverse. Finally I needed to do the obstacle avoidance. This was simply an if statement that would check if the front, left or right had the closest sensor data and move accordingly.