



EMBEDDED SYSTEMS

Assignment 7

TURTLEBOT



- Write a program to remote control your TurtleBot.
 - You should be able to type commands on your laptop or host system instructing the TurtleBot to perform some action. The Raspberry Pi serves as a proxy to the TurtleBot, taking your command and issuing appropriate commands to the TurtleBot itself.
 - The client should accept the following commands:
 - Drive
 - Turn: right and left by a fixed amount
 - Turn: right and left by a programmable amount
 - Read Sensor Data: dump sensor data to your terminal
 - Goto: move to a x,y point relative to the TurtleBot's current position
 - Ex. 20, 100 should move the TurtleBot right by 20 steps and forward by 100 (think of the ground as a grid)
 - Return: return to the starting position before you started executing any commands.
 - Reset: reset the starting location (for use with the return command)
 - Commit the program to your team repository under the branch assignment7-turtlebot.
 - Demonstrate with a short video.