The Line Follower of Doom?

Robot Engineering Notebook

Mike

Robot

Land robot - drive to certain location, following a lip

Task

1. Drive forward
2. Follow line using light sensor
3. Turn when line does
4. Stop

Possible design ideas

Tests

1. Calibration to command here
2. Unstable back
3. Wrong command (light sensor)
4. Added text display
5. Command were correct
Pseudo Code

Start

Display Text (Line 3)

Display Text (Line 4)

Display Text (Line 5)

Wait for Light Sensor

Follow Line (Alternate Right and Left Motors)

End

Repeat unlimited
Software Code

Code Modifications
- Added Display Texts (3 lines)
- Changed movement direction + power (40 apart)
- Added repeat to make it work

Final Robot Design
- Light sensor
- Wheel
- NXT block

Potential for Improvement
- Balance back easier so robot isn't leaning frontward
- Add ultrasonic sensor for depth perception
- More sensors (touch/sound)