Brian Team (dot4qu)
Ben Browning (brb7nu)

Mariobots Project Proposal

For our project, we plan on integrating an IR sensor with the iRobot for obstacle detection. The webcam will still be used for the detecting of the traffic light, while the IR sensor will be used to monitor the area in front of the robot for obstacles such as bricks or other robots. This add obstacle detection functionality to the iRobot without the ned to use orange circles posted on them. Within the demo, our robot would be expected to sense an obstacle without an orange marker and display this fact somehow (via Boolean or otherwise), and change its behavior accordingly. This behavior change could be seen as a slowing of the robot, or beginning its maneuver around the before it comes in contact with it.

Parts List:
Digilent IR range sensor
SKU: 240-037
Price: $16.99
Link: http://store.digilentinc.com/ir-range-sensor/