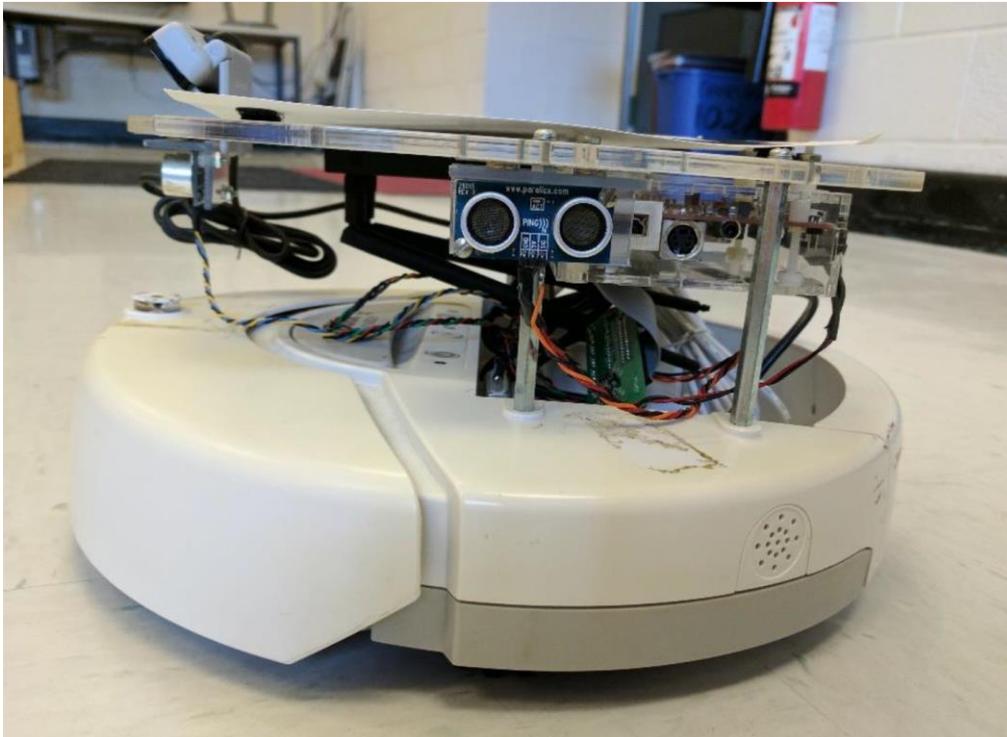


Integrate depth sensor with the iRobot Create

In MAE 4180/5180 “Autonomous Mobile Robots” labs are performed with the iRobot Create. This project is to integrate a new sensor (an RGBD camera) with the robot, provide beacon and range information over wifi and integrate with the robot and a MATLAB interface used to control the robot.

This project is intended for a team of two students.



Deliverables:

- Choice of sensor, computation and mounting solution
- Well documented code for providing beacon and range information
- Demonstration of a Matlab program controlling the robot based on range and beacon information

Requirements: Programming experience. Familiarity with RGBD sensors a plus.

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