

Robot Engineering Notebook

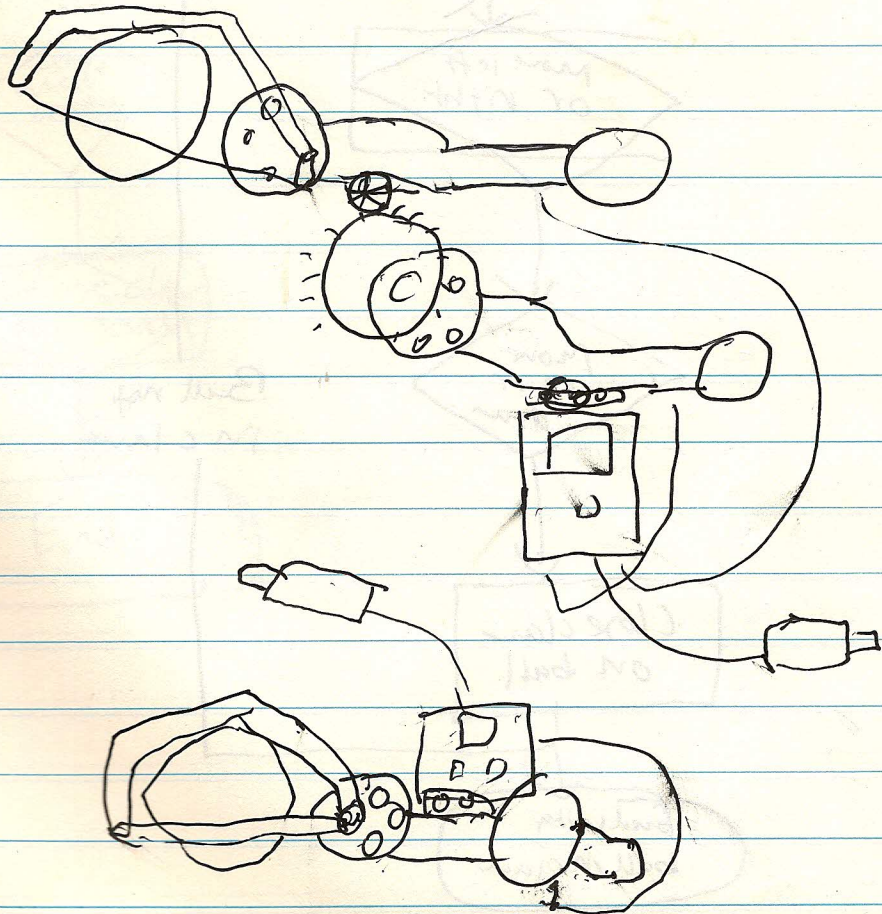
Robot:

We are going to build a ~~water~~^{land} robot.

Task:

Our robot is going to pick up a ball using multiple joints. We will control it using the touch sensor.

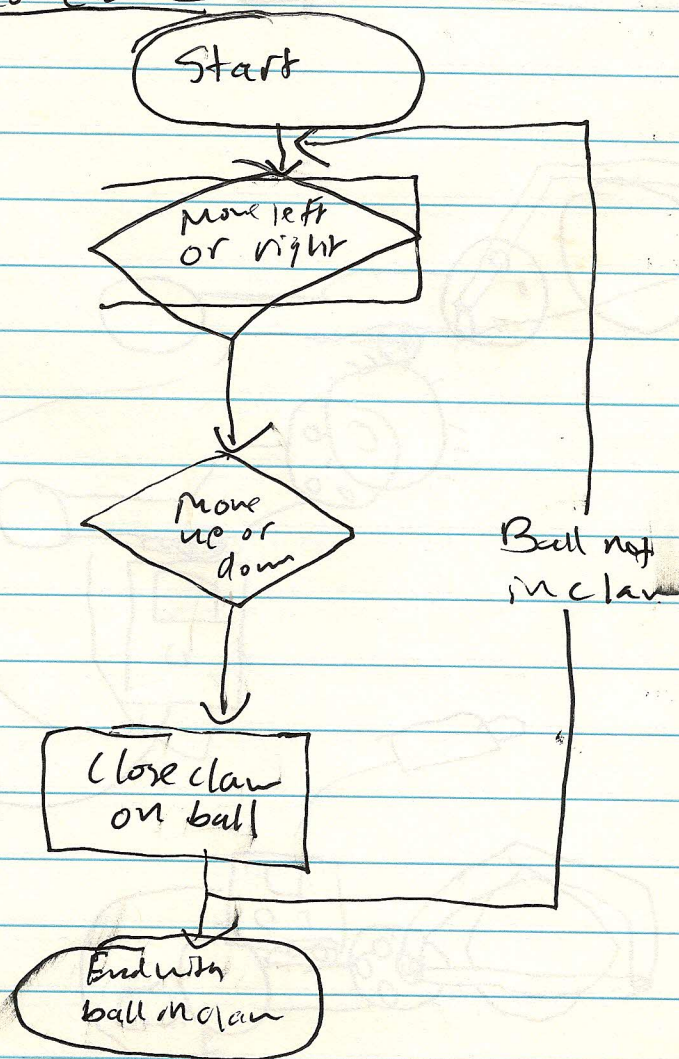
Several Possible Designs:



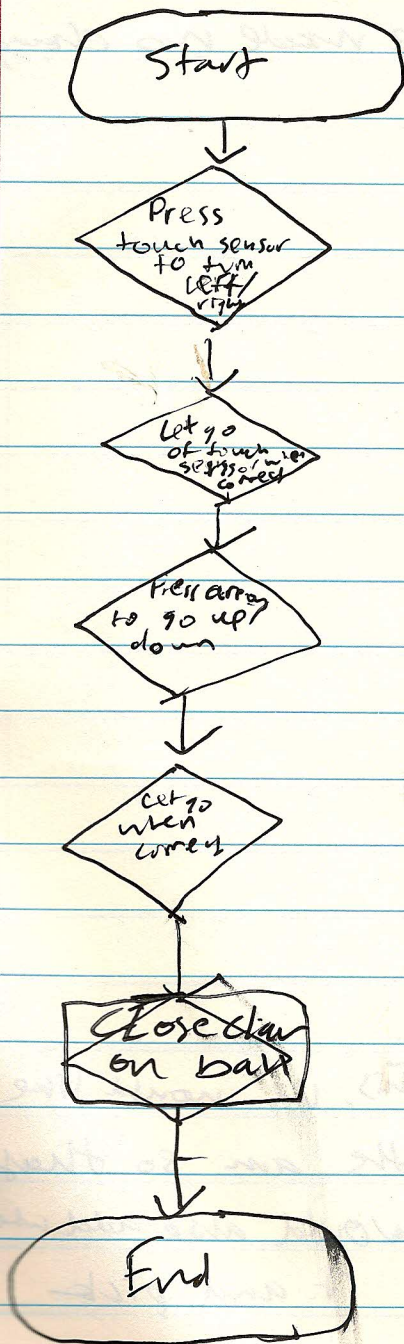
Tests

Our initial design for the robot actually worked out pretty well. We managed to get all the motors working and it was able to pick up the ball. So from there, we just began to add more functions and tweak our design. So we also implemented touch sensors in our design and the ability to turn.

Pseudo code



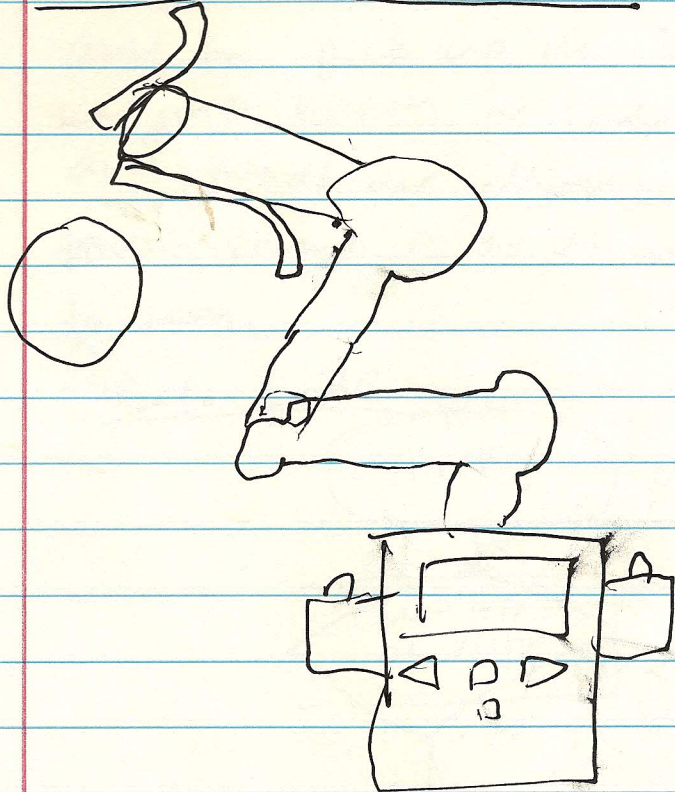
Software Code



Code Modifications

Our code was fine and we made no changes to it.

Final Robot Design



Potential For Improvements

- The next times we do this, we would like to add extra supports to the arm so that it is less wobbly. We would also add wheels to it so we can drive it and pick stuff up with it.