

91.451, Robotics II
Prof. Yanco
Spring 2003

Lab 2

Out: Thursday, 6 February 2003

Due: Thursday, 13 February 2003, by start of class

Overview: In this lab, you'll be writing your first brains for the robot. In Lab 1, you created a world that simulated the third floor of Olsen Hall. In this lab, you'll use that world to test your code, then you'll run your code on the actual robot.

For this lab, we'll be using the PyroDirectControl module, which is linked from the course web page. Do all of the exercises in this module, turning in your code and answers to any asked questions. Show me your wall following code running in the simulator and also on the Pioneer.

To run a program on the Pioneer, follow these steps:

```
ssh <youracct>@pioneer2.cs.uml.edu
```

```
<password>
```

```
scp csrobot@<labcomputer>.cs.uml.edu:<brainfilename> .
```

```
<csrobot password>
```

```
pyro -g tty
```

```
load robot
```

```
Pioneer2AT
```

```
load brain
```

```
/home/<youracct>/<brainfilename>
```

```
run
```

Press white button on Pioneer to start program running. You might want to get the robot into a good place to run before doing this.

```
stop
```