



Project Next Steps

- By now you should have:
 - Built robot
 - Installed Raspbian
- Next important step: what will your architecture be?

UMBC

Code and version control?

Message passing and comms infrastructure?

- ♦ Turnins
 - Writeup of architecture
 - Code to control servos and read sensors
 - Video of a small demo



Barameters → Configuration Inverse Kinematics (IK): Configuration → Parameters I want to be in this configuration. What motions should I make? Mobile configuration = position and orientation with respect to an arbitrary initial frame I Understanding mobile robot motion starts with

understanding constraints on the robot's mobility.



What We're Trying to Do



- Power on: position = (0,0), orientation = due north
- 2. Rotate 15° right
- 3. Move forward 2 meters
- 4. Observe obstacle
- 5. Rotate 30° left
- 6. Move forward I meter
- Position (?,?), orientation = ?°
- Where's the obstacle?

		רע		
	ή.	. I		
		די		

UMBC















































































