This Week

- Actions in ROS
- Reading Discussion
- Finding Related Robotics Research Articles
- Project Breakouts

Announcements

Project Proposal

- Due this Friday
Immediate openings @ my lab

- Undergraduate Research Assistants
- Spring 2018, Summer 2018, Fall 2018
- If interested, send me an email with a resume and your availability in terms of terms and hours per week

The Project

Augmented Reality

Design of a Service Robot

Immediate openings @ my lab

- Undergraduate Research Assistants
- Spring 2018, Summer 2018, Fall 2018
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What this may look like with Turtlebot...
### Readings

### Actions in ROS
- **Main page:** [http://wiki.ros.org/actionlib](http://wiki.ros.org/actionlib)
- Actions are like services but...
  - Can be interrupted while being executed
  - Can publish feedback to the client who called them over the course of execution

### Video

### Calling navigation actions from code
- Let’s write a client that calls an action of type `move_base_msgs::MoveBaseAction`
- This is the default action for making the robot move to a (x,y, theta) goal in the map

### Homework 6
- Goes out tonight
- Part 1: Build a map of a small portion of floor 1 in Halligan
- Part 2: Write a program that moves the robot back and forth between two points in the map that you built

### Project Breakout
- Breakout into your project groups
- Think of the modules / components you need to write for your system to work
  - What are the inputs and outputs of each?
  - How will you make them talk to each other? Messages? Services? Or Actions?
  - How will you organize them into separate ROS packages?
  - Setup a github repository
THE END