

Administrative Tasks 1/4/2011

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Checkpoint 2 (due today)

- You should prepare information (a document or something posted on your wiki) of the following information.
- Must have a robot strategy
- Must have a schedule for IAP
- Must have a mechanical outline, drawings or SolidWorks
- Must have a software architecture outline, state diagrams, stack structures, tread structures, etc.
- There will be a 20 minute team interview with staff to discuss your plan

Checkpoint 2 Schedule

- *2:00pm - Teams 1 & 2
- *2:20pm - Teams 3 & 9
- *2:40pm – Teams 7 & 6
- *3:00pm - break
- *3:20pm – Team 8
- *3:40pm - Team 10
- *4:00pm - Team 11
- *6:30pm – Team 13

Checkpoint 3 (due tomorrow)

- Use a bump sensor, IR, or Ultrasound to:
 - Drive up to a wall,
 - sense it (maybe back up),
 - and turn to the side
- Experiment with other data inputs (sonar, gyro, camera, encoders).

Ways to Fail at the Final Competition

- Loose Battery Cables
 - Tie down all your cable leads the last week of IAP
 - Make strong battery cables!
- Loose set screw on your motors
 - Loctite your screws the last week of IAP
- Orcboard fire!
 - Don't plug things into your orcboard while it is on
- Uncontrollable spinning
 - Timeout code
 - Testing and proper gyro calibration
 - Check both camera and gyro for undesirable spinning
- Hitting up against a wall repeatedly trying to get a ball in the corner.
 - Timeout code
- Stuck on a carpet bump
 - Make sure you can go over bumps about $\frac{1}{4}$ "
- IR sensor white-out
 - Add bump sensors as a secondary check for hitting a wall
- Camera yellow-out
- Big room with a little door

Solution?

TEST

TEST

TEST!!!!!!