Final Project Report

Due: Friday, 8 May 2015 by noon

Prepare the following write-up to complete your final project. For a group project, each team member should write their own report, which means that each person should write his or her own text, not just copy that of his or her team member.

Turn in the report to my office (Olsen 206; if I’m not there, slide it under my office door). Be sure that it is stapled, so your pages do not get mixed up with someone else’s. If you don’t come to campus regularly, you can email the report to me instead.

Your report should include the following information:

1. Briefly describe the task(s) of your robot(s). You discussed this in your proposal, but often the final outcome doesn’t exactly reflect the proposal. If you changed your design between your proposal and the final project, please describe what you changed and why you changed it.

2. Describe the design(s) for your robot(s). Include a sketch and/or photo of your robot(s). What sensors did you use? Where did you place them? What were you using each sensor for? What was your drive train for each robot? How many motors did you use? How many wheels (if applicable)? What gearing? Also describe any other relevant structures on your robot(s). If you built an arm, describe its sensors, motors and structure.

3. Describe your code design for the robot(s). What were the behaviors you designed into your robots? Did you choose to multitask or did you have a single process? Use pseudocode to describe your code design.

4. Turn in your code for your robot(s). If you had two robots, please make it clear which code goes with each robot. Be sure to comment your code, at least one comment per code block. (Note that you don’t have to print the code for each person’s report in a group project; just one copy of the code needs to be submitted.)

5. Did your robot(s) behave as you had planned during open house? If not, what happened? Did the interactions people had with your robots happen according to design?

6. If you were to redesign your project, what changes would you make?
7. For a team project: Describe your contribution to the project and describe the contributions of your team members.

8. How many hours would you estimate that you spent on your project? Break down into time spent thinking of an idea, time spent designing, time spent building, time spent coding, time spent testing, and time spent refining the robot. (Add additional categories as you see fit, if you don't like my breakdown.)

9. If you were to redesign the course, what changes would you make? (You may turn this in separately without your name attached, if you wish. You will not be graded on this question.)