Preliminary Design Review Template

# A brief summary of your design (< 1 page)

# Hardware Design

1. Circuit diagrams are neatly and clearly displayed. Hand drawings are not acceptable unless they are of pristine quality. Circuit diagrams have pin numbers, device names, and connection descriptions (wire-wrap, connector, etc…). It is better to split your circuit diagrams into smaller ones if you can. Use the PIC24F development board diagrams as a positive example.
2. A table with part numbers, approximate costs, and sources (stock room, sparkfun, etc..) are included. Another person should be able to find/buy all of your parts.
3. For pins on the microcontroller, make it clear how each pin is being used (debugging, PWM, ADC, power, oscillator, etc…)

# Software Design

1. Describe your software in detail. A finite-state machine is preferred. It is better to split your program description into parts if you can do so easily. It is not important to exactly mirror the structure of your code. It is important to accurately describe the functionality of the code.
2. Describe any functions you will write in detail (input, output, description). Using only a main function is a sure way to lose points.

# Testing Design

1. Describe any tests that you will perform as you design your system. It is strongly advised that you test the functionality of your robot in a step-wise fashion. This can be described in a test-acceptance plan. Each test has to have passing criteria. There should be at least 4 tests related to the operation of the robot. (Testing your equipment is not included, but you should do this anyway.