

Fall 2018 PC/CP320 Integration Project Checklist (0.3)

- Basic requirements

- A. Sensors and Actuators

- 1. gets input from environment _____
 - 2. makes changes in environment based on inputs _____
 - 3. distance sensor (ultrasonic or infrared) _____
 - 4. *other* analog or PWM sensor (i.e. *proportional* operation) _____
 - 5. one motor (DC, stepper, or servo) _____
 - 6. *including* one analog or PWM actuator (i.e. *proportional* operation) _____

- B. Software

- 1. interacts with *operator* (on computer) _____
 - 2. modular (explicit functions for *each* device) _____
 - 3. no magic numbers _____
 - 4. self-explanatory variable and function names _____

- C. Documentation

- 1. circuit overview _____
 - 2. clear block diagram (identifying signal types) _____
 - 3. explanation of each block _____

Note: All interactions with the operator and the environment must be related; environment input should affect output to operator and input from operator should affect output to environment.