

2020 PC/CP320 Integration Project Checklist (Fall)

- Basic requirements

- A. Sensors and Actuators

1. gets input from environment _____
2. makes changes in environment based on inputs _____
3. distance sensor (ultrasonic) _____
4. *other* input device (i.e. *multivalued*) _____
5. one motor (stepper or servo) _____
6. *User* output (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* ($3\times$ *weight*) _____

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.