

## Winter 2017 CP316 Project Checklist (0.2)

- Basic requirements

- A. Features

1. LCD \_\_\_\_\_
2. RPG \_\_\_\_\_
3. Interrupts \_\_\_\_\_
4. Timer/counter \_\_\_\_\_
5. Capture or compare \_\_\_\_\_
6. UART or SPI or  $I^2C$  \_\_\_\_\_
7. ADC \_\_\_\_\_  
(must have *proportional* operation)
8. analog or PWM or stepper output \_\_\_\_\_

- B. Software

1. interacts with *operator* (via RPG or other) \_\_\_\_\_
2. include file(s) for macros, subroutines, etc. \_\_\_\_\_
3. no magic numbers \_\_\_\_\_
4. self-explanatory variable and function names \_\_\_\_\_

- C. Documentation

1. circuit overview \_\_\_\_\_
2. clear block diagram \_\_\_\_\_
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.