2020 PC/CP320 Integration Project Checklist (Fall)

- Basic requirements

    A. Sensors and Actuators
        1.   gets input from environment   _Alcohol / Ethanol_
        2.   makes changes in environ-   _____
              ment based on inputs
        3.   distance sensor
              (ultrasonic)   _____
        4.   *other* input device
              (i.e. *multivalued*)   _MQ3_____
        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× 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.