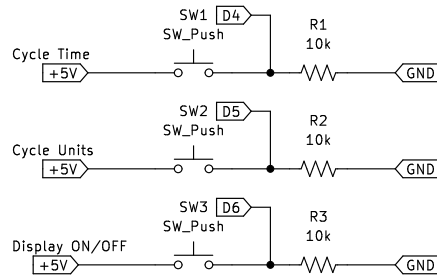


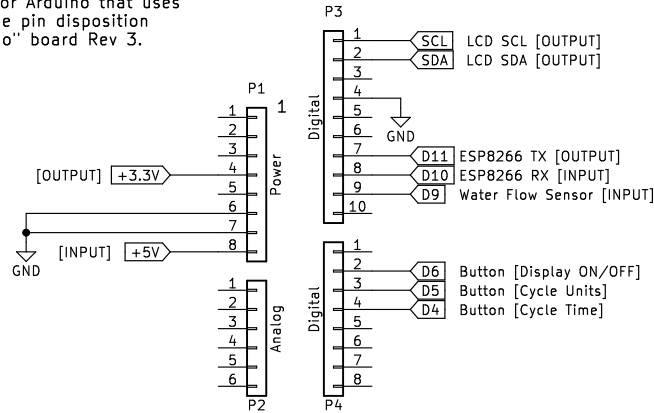
+5V POWER SUPPLY
 These pads are going to be used to integrate a DC-DC step down PCB that will be used as the power supply for the system.



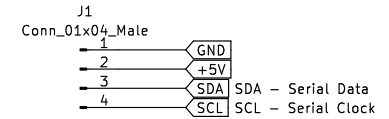
JUMPER FOR 16x2 LCD DISPLAY & ARDUINO
 These jumpers are used to power the LCD Display and utilize the I2C communication which will be done through SDA/SCL.



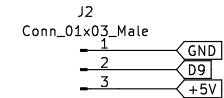
Shield for Arduino that uses the same pin disposition like "Uno" board Rev 3.



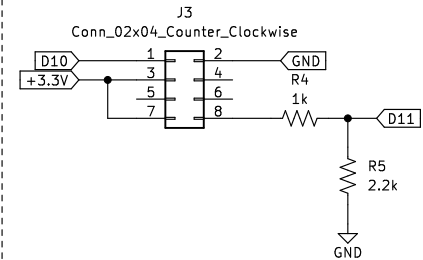
HEADER FOR ARDUINO UNO CONNECTIONS
 These traces will integrate all signals between the Arduino Uno and the inputs and outputs of the system, including the LCD Display, the Water Flow Sensor, the ESP8266, and the buttons.



JUMPER FOR 16x2 LCD DISPLAY & ARDUINO
 These jumpers are used to power the LCD Display and utilize the I2C communication which will be done through SDA (A4), and SCL (A5).



JUMPER FOR WATER FLOW SENSOR & ARDUINO
 These jumpers are used to power the Water Flow Sensor and capture the PWM signal from the sensor on digital pin 6.



JUMPER FOR ESP8266 & ARDUINO
 These jumpers are used to power the WiFi Module and send data through the ESP8266 using serial communication on digital pins 10 and 11, TX and RX respectively.

Carlos Beleno
 Christian Ovchinikov
 Mohammed Al-Khalifa
Oregon State University

Sheet: /
 File: PCBv5.kicad_sch

Title: Smart Water Flow Sensor

Size: A4 Date: 2023-04-12

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Rev: 5

Id: 1/1