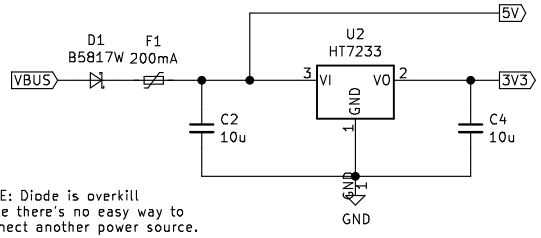
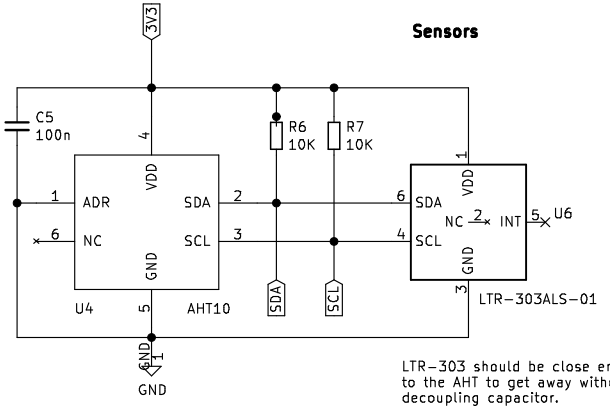
Power



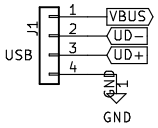
NOTE: Diode is overkill since there's no easy way to connect another power source.

Sensors



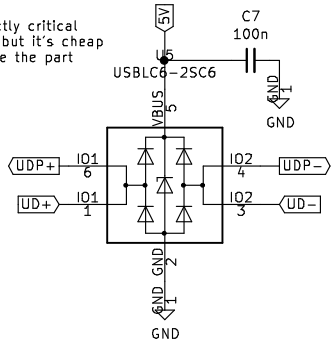
LTR-303 should be close enough to the AHT to get away without a decoupling capacitor.

USB Connector

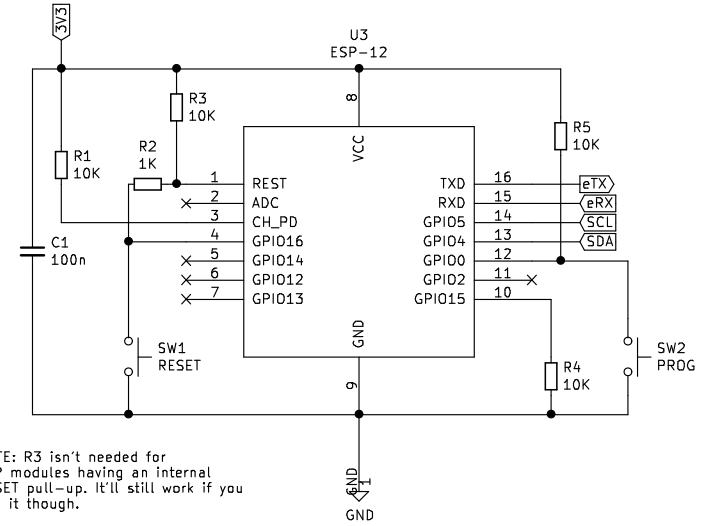


ESD TVS Diode

NOTE: This isn't strictly critical for this application, but it's cheap insurance if you have the part handy.



ESP-8266

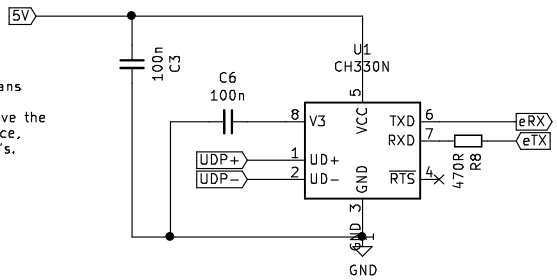


NOTE: R3 isn't needed for ESP modules having an internal RESET pull-up. It'll still work if you add it though.

USB Controller

NOTE: On paper, using 5V on VCC means we drive TXD at 4.5V (well, 4.2V with the drop from D1), which puts us above the 3.6V specced working range. In practice, the ESP-8266 is 5V tolerant on GPIO's.

ALSO NOTE: Apparently WCH chips have on-board USB termination resistors.



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