// TODO: Research how to make a solder gap for a pull-up or pull-down resistor to determine the smapling rate.

// TODO: Add a connector for getting SDATA and SD\_CLK to my microcontroller. This could simply use a twisted-pair configuration (or not).

The circuit contained below is the circuit given on the HX711 development board Joe gave to me.

E+: Positive excitation (+2.75V regulated)

E-: Negative Excitation (GND)

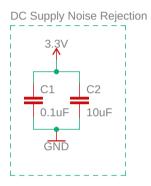
A+: Channel A positive differential (load cell green)
A-: Channel A negative differential (load cell white)

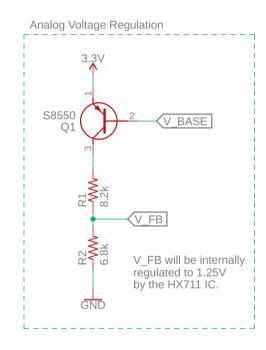
GPIO "Bit-Banged" Pins:

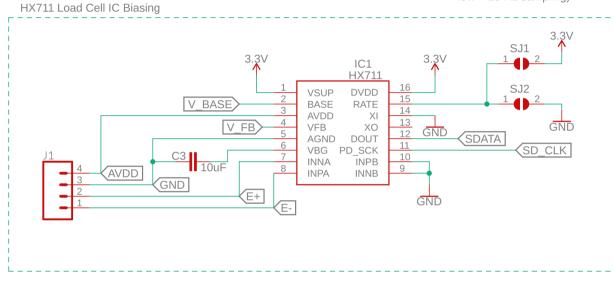
(1) SDCLK

(2) SDATA

NOTE: Put on silkscreen the way to close these solder jumpers (high = 80Hz sampling, low = 10 Hz sampling)







## Design Notes:

- (1) X0 = NC, XI = 0 for internal crystal oscillator
- (2) AVDD generated by HX711 as shown on pg. 4 of datasheet:

  V\_avdd = V\_bg \* (1 + R1/R2) // incorrect in datasheet

  MUST be at least 0.1V less than VSUP
- (3) SDATA and SD CLK go directly to microntroller input header
- (4) RATE = 0 means a 10Hz sampling frequency. 1 for 80 Hz. Both pull-up and pull down resistor pads will exist.
- (5) DVDD = V MCU (3.3V)
- (6) AGND =  $\overline{GND}$