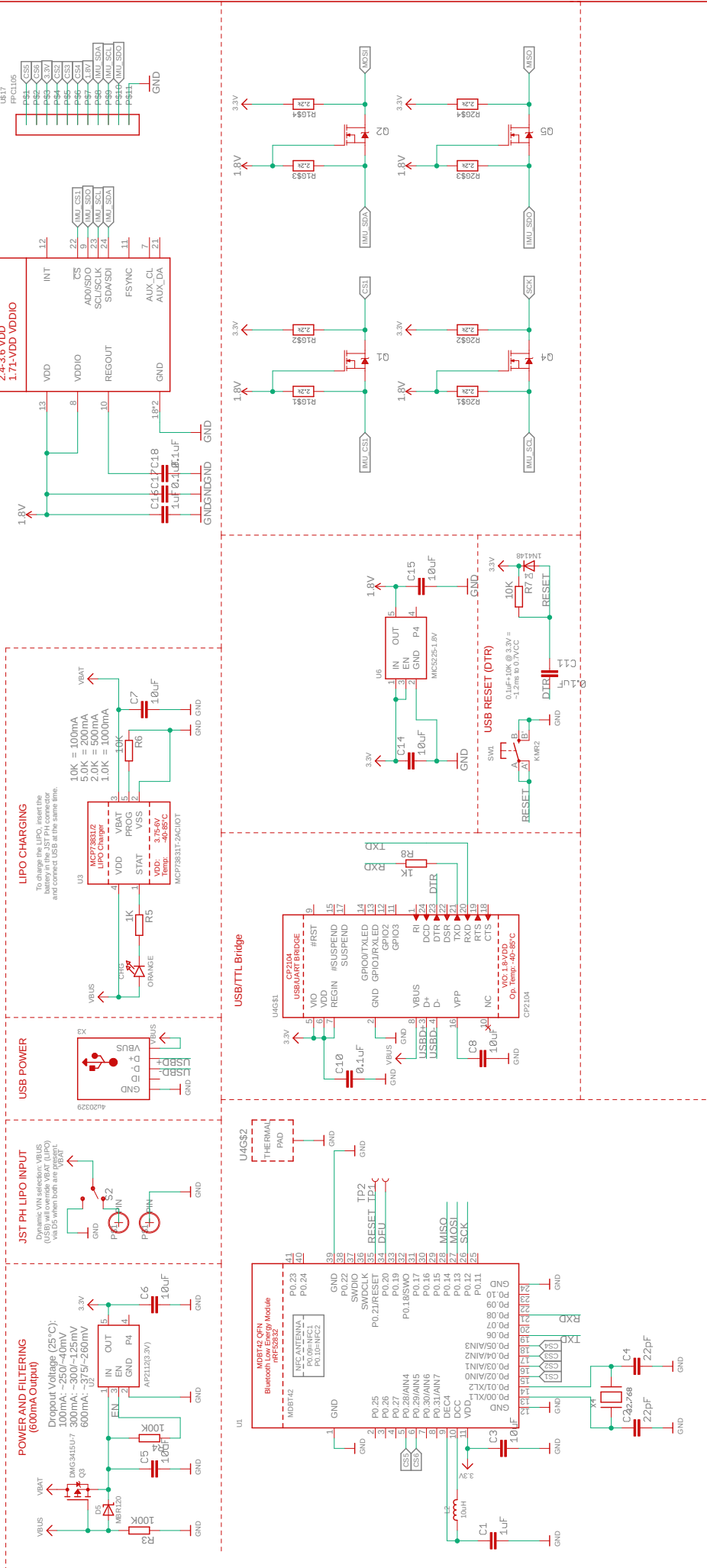


See: <https://devzone.nordsemi.com/blogs/943/measuring-lithium-battery-voltage-with-nrf52/>

Maximum voltage: $4.2\text{ V} \times \frac{2\text{ M}}{2\text{ M} + 0.8\text{ M} + 2\text{ M}} = 3\text{ V}$
 Minimum voltage: $2.7\text{ V} \times \frac{2\text{ M}}{2\text{ M} + 0.8\text{ M} + 2\text{ M}} = 1.93\text{ V}$
 ADC value at 4.2 V - 12 bit setup: $3\text{ V} \times \frac{(1/5)}{0.6\text{ V}} \times 4095 = 4095$
 ADC value at 2.7 V - 12 bit setup: $1.93\text{ V} \times \frac{(1/5)}{0.6\text{ V}} \times 4095 = 2634$
 Usable ADC resolution - 12 bit setup: $4095 - 2634 = 1461$



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Date: 3/2/22 11:29 AM	Sheet: 1/1