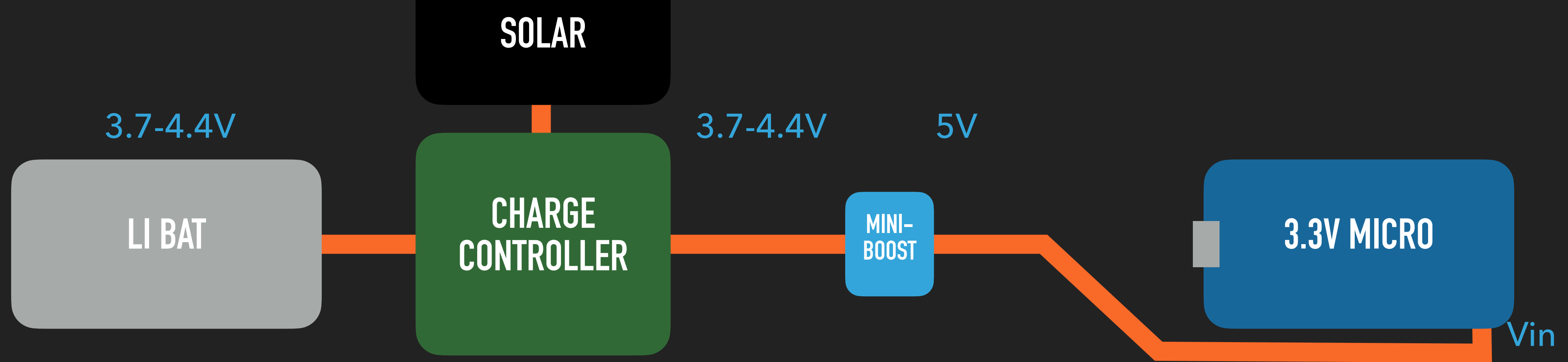
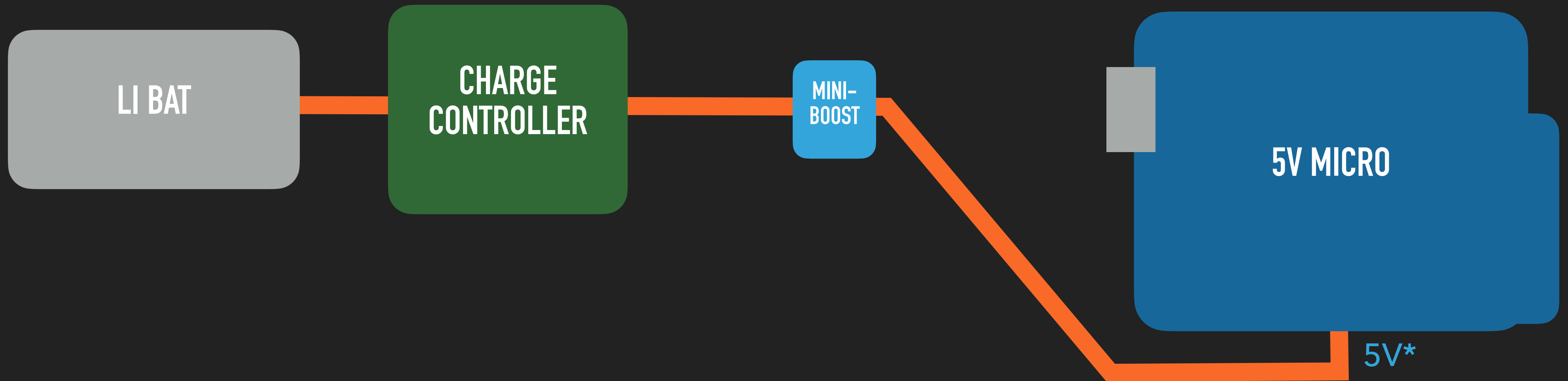


These configurations are reliable, but have two stages of voltage regulation

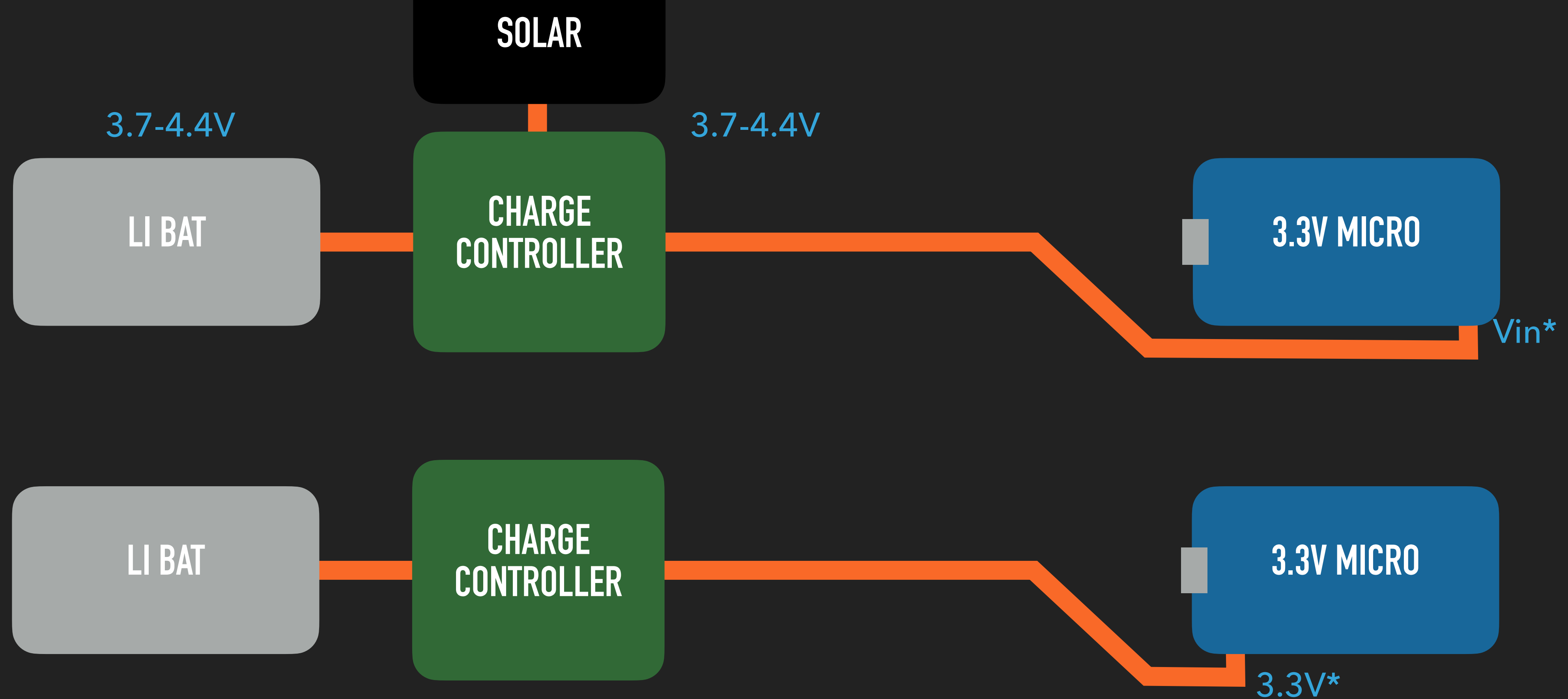
Also  
two  
stage



One  
stage

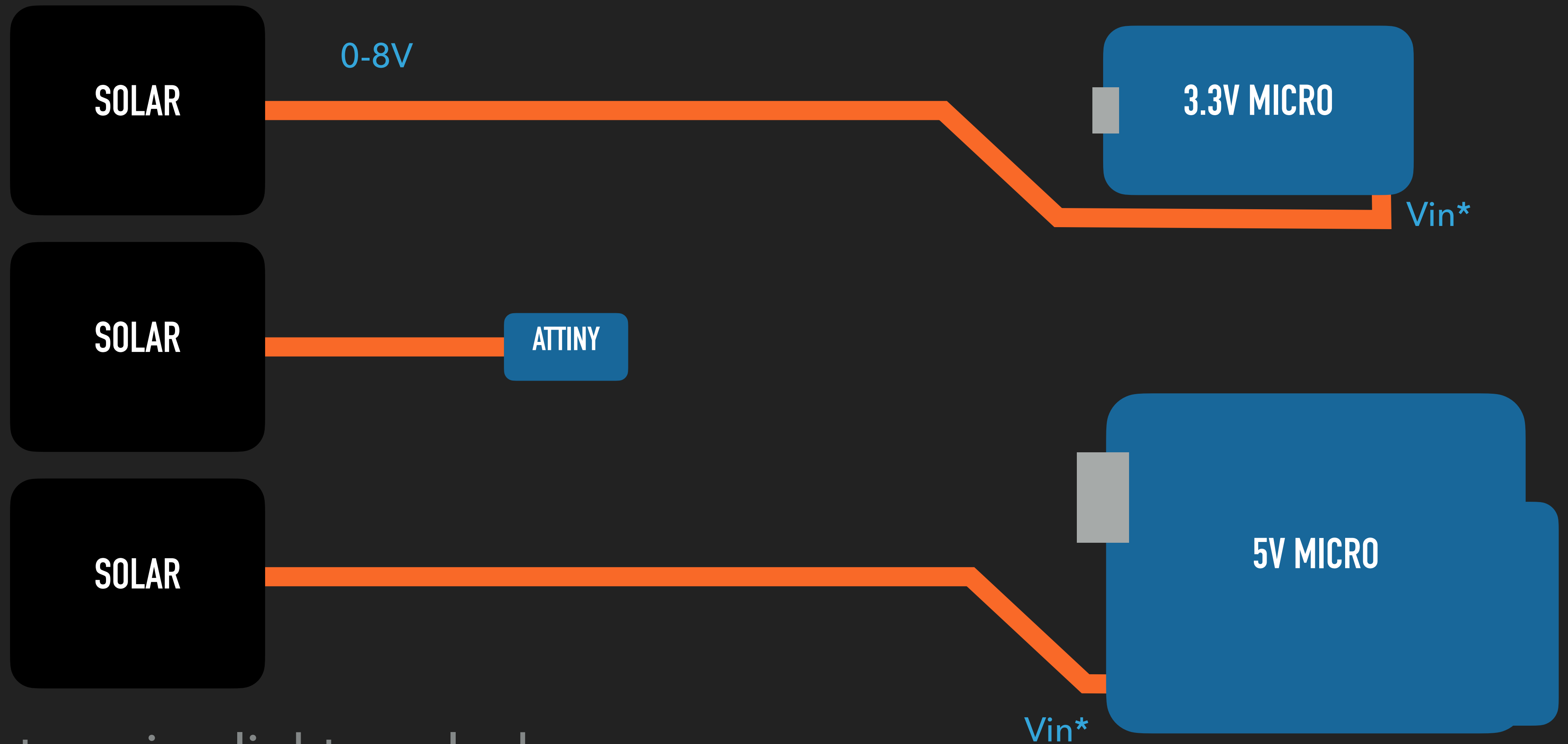


\*Allowed, but use caution: <https://docs.arduino.cc/learn/electronics/power-pins>



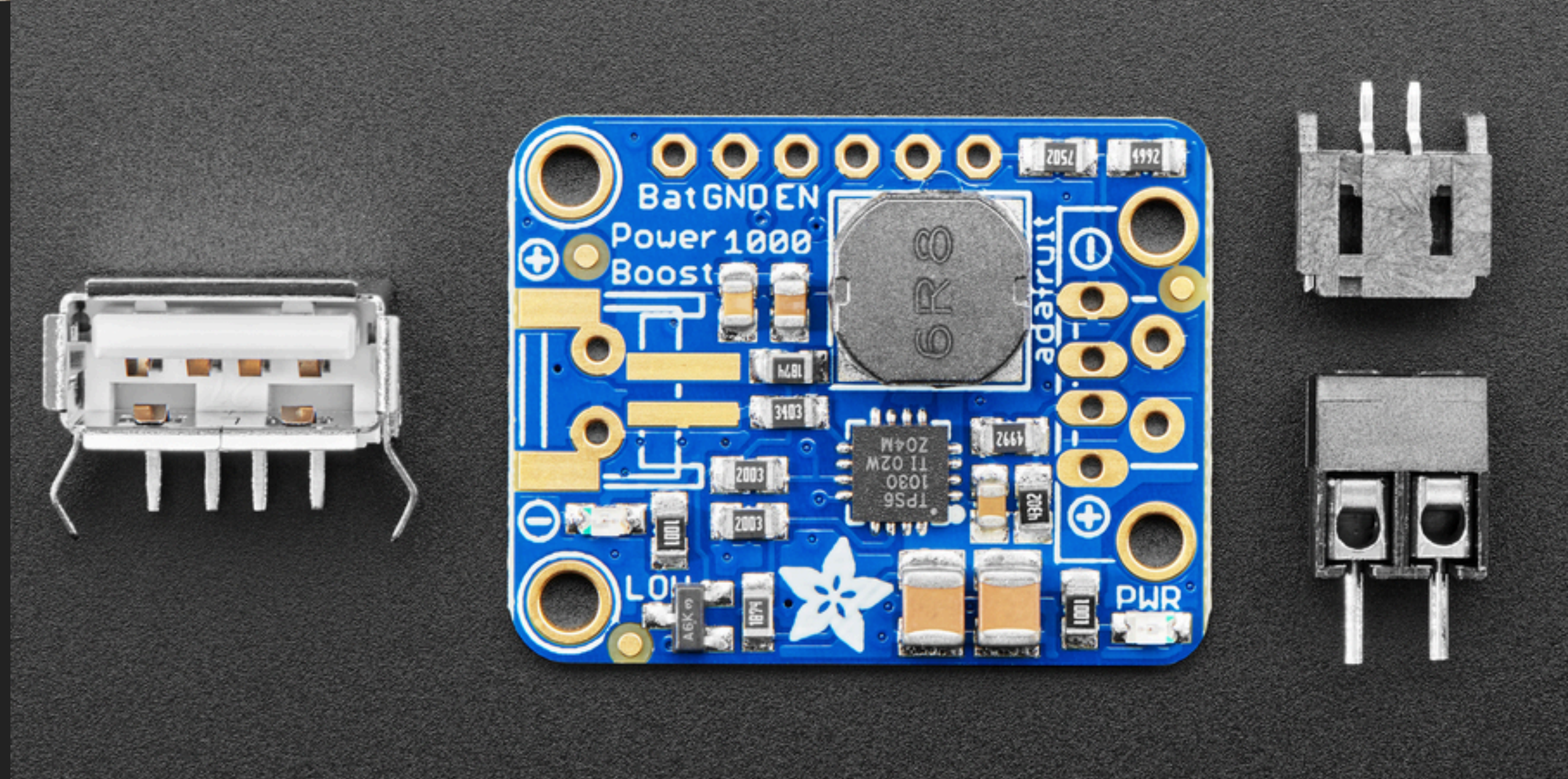
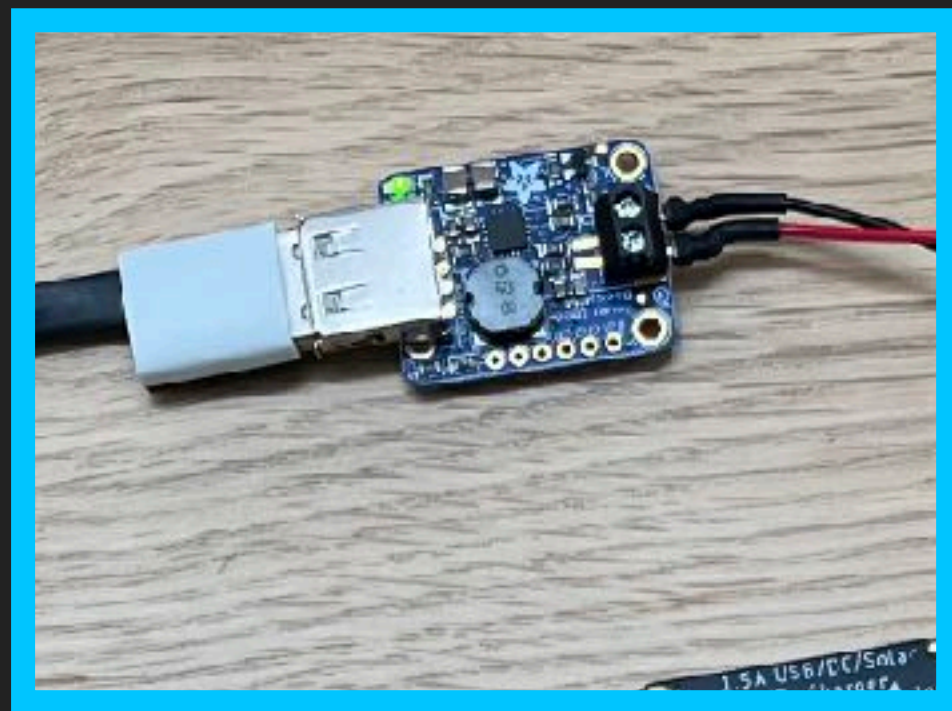
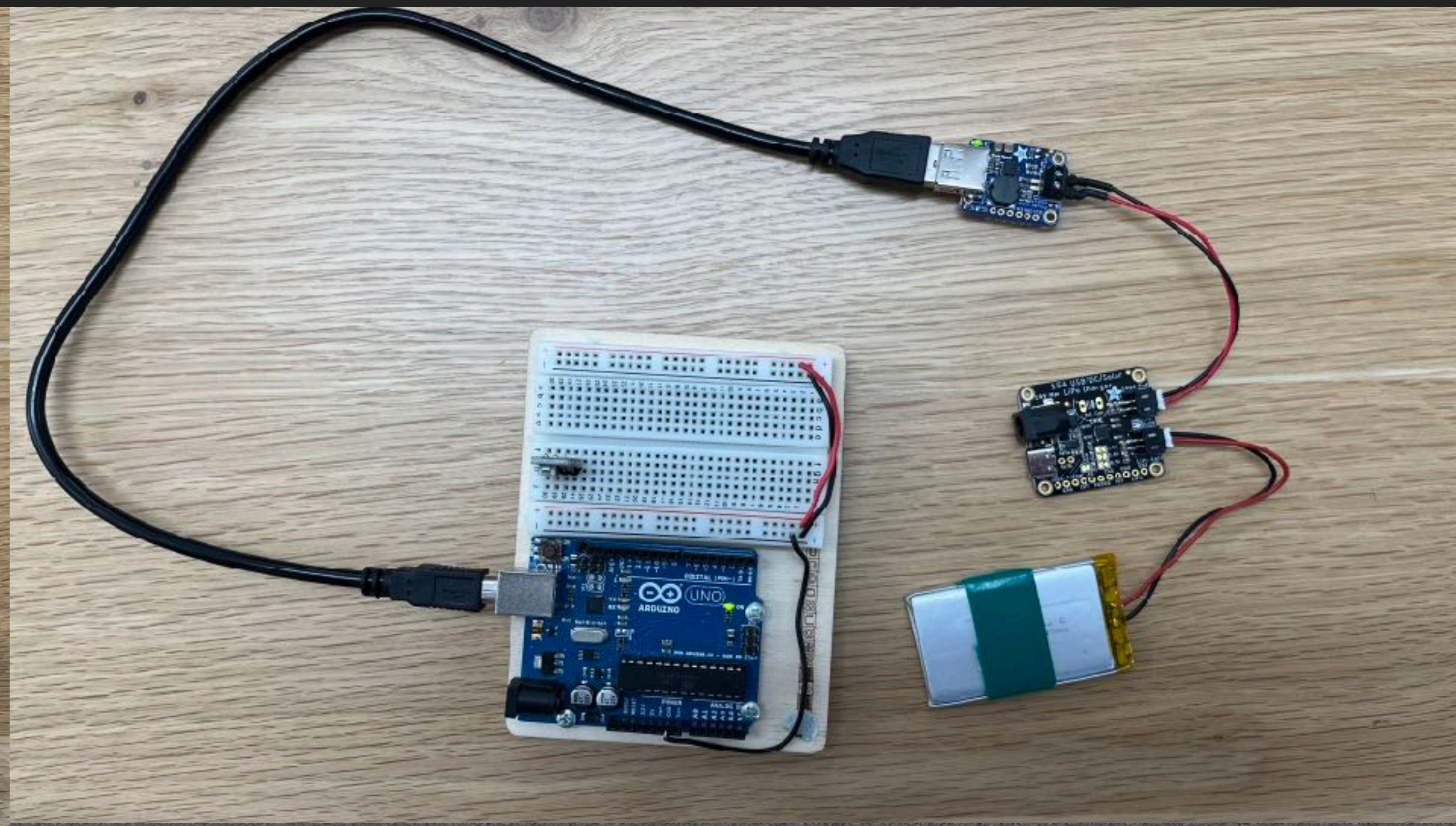
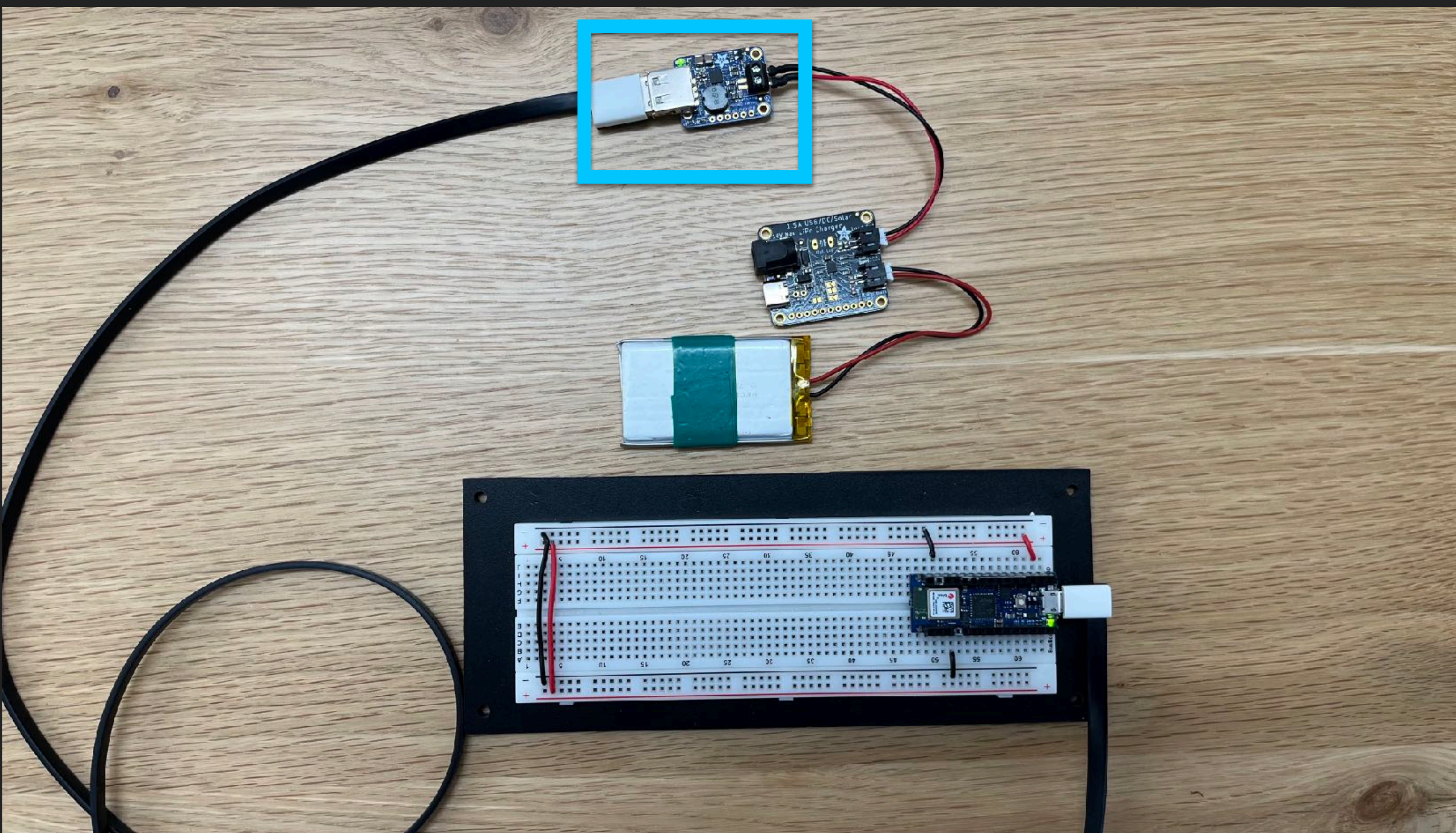
One voltage regulator, somewhat out of spec depending on microcontroller

\*Works, out of spec, use caution: <https://docs.arduino.cc/learn/electronics/power-pins>

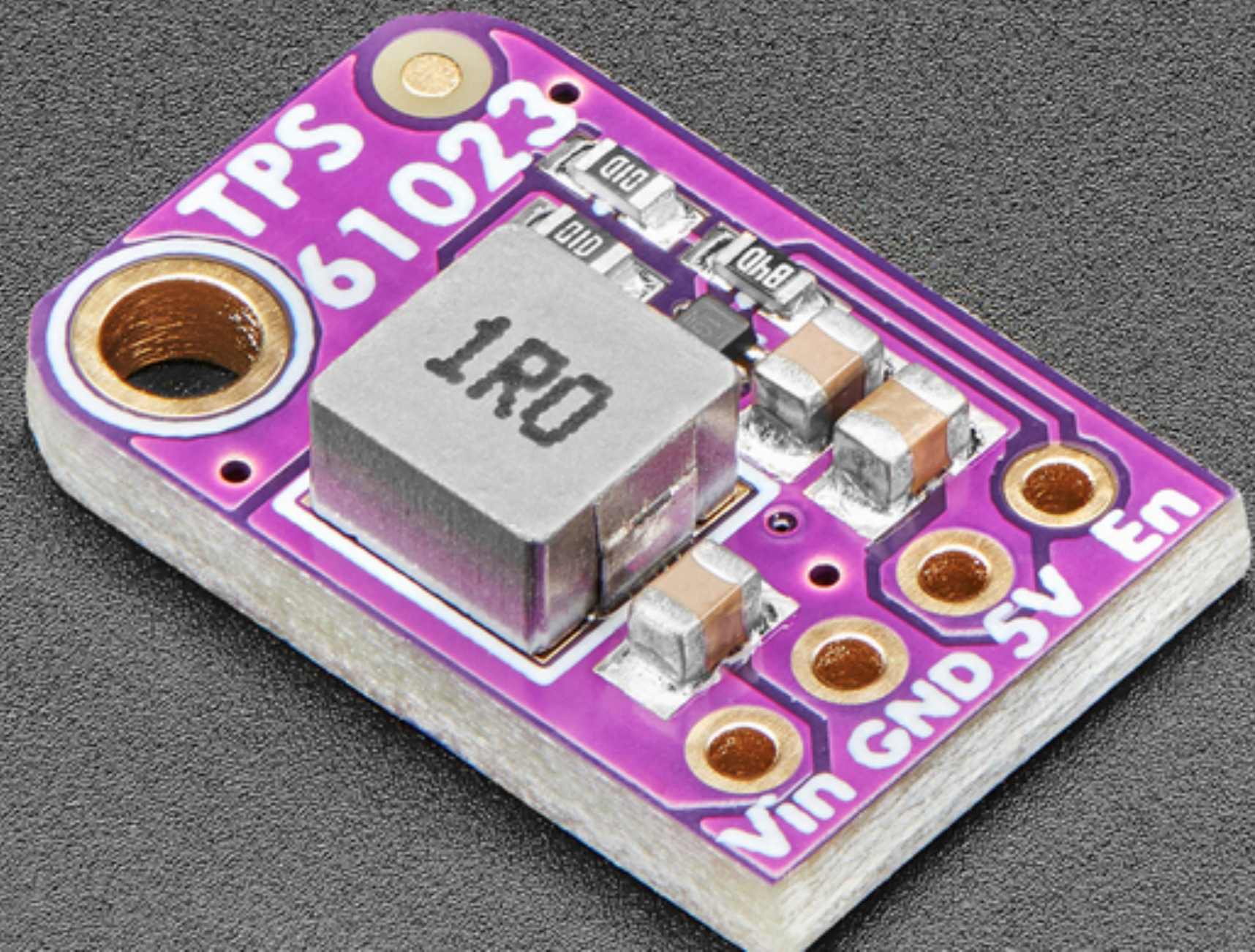
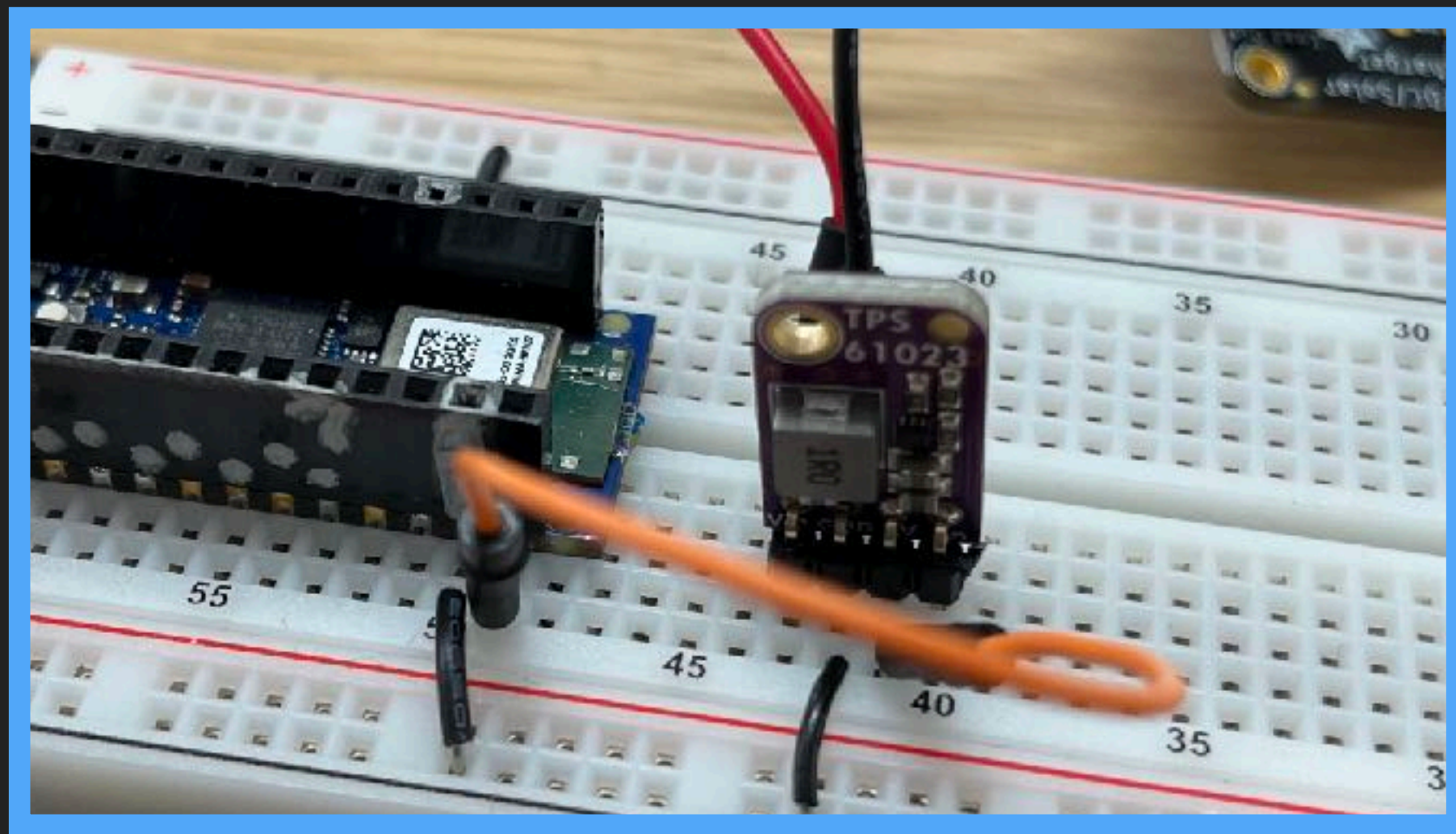
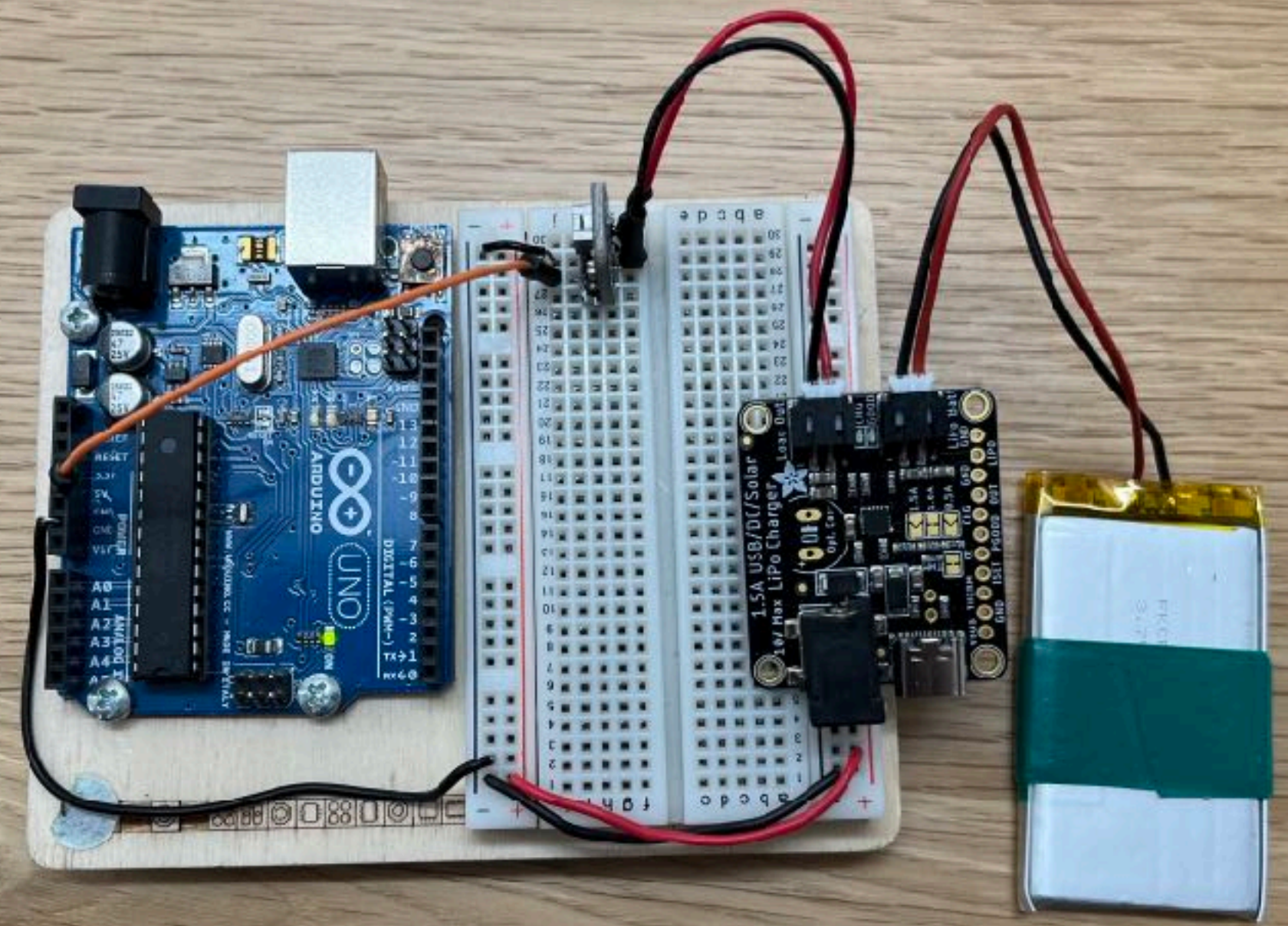
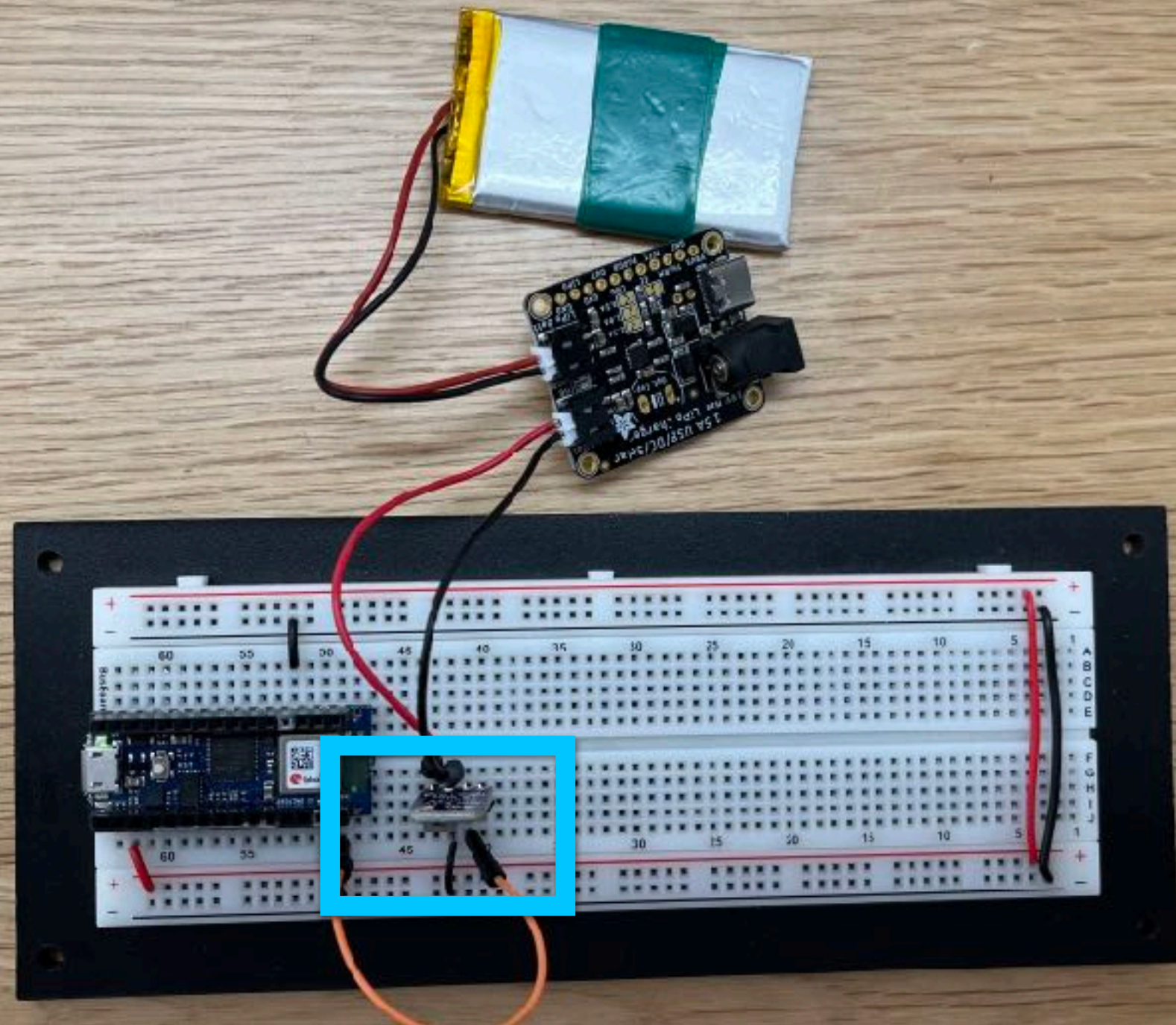


Can work, but varying light can lock up microcontroller

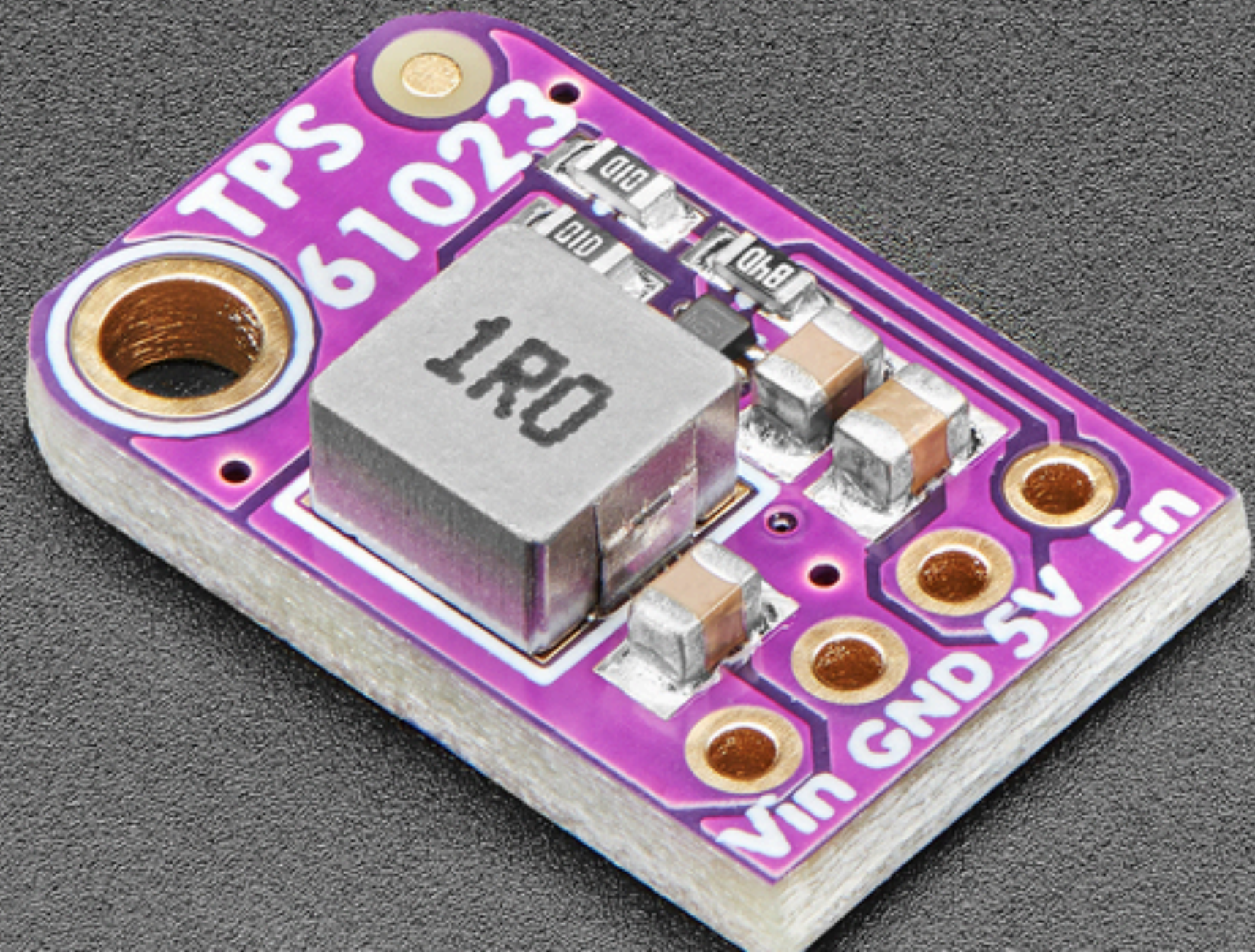
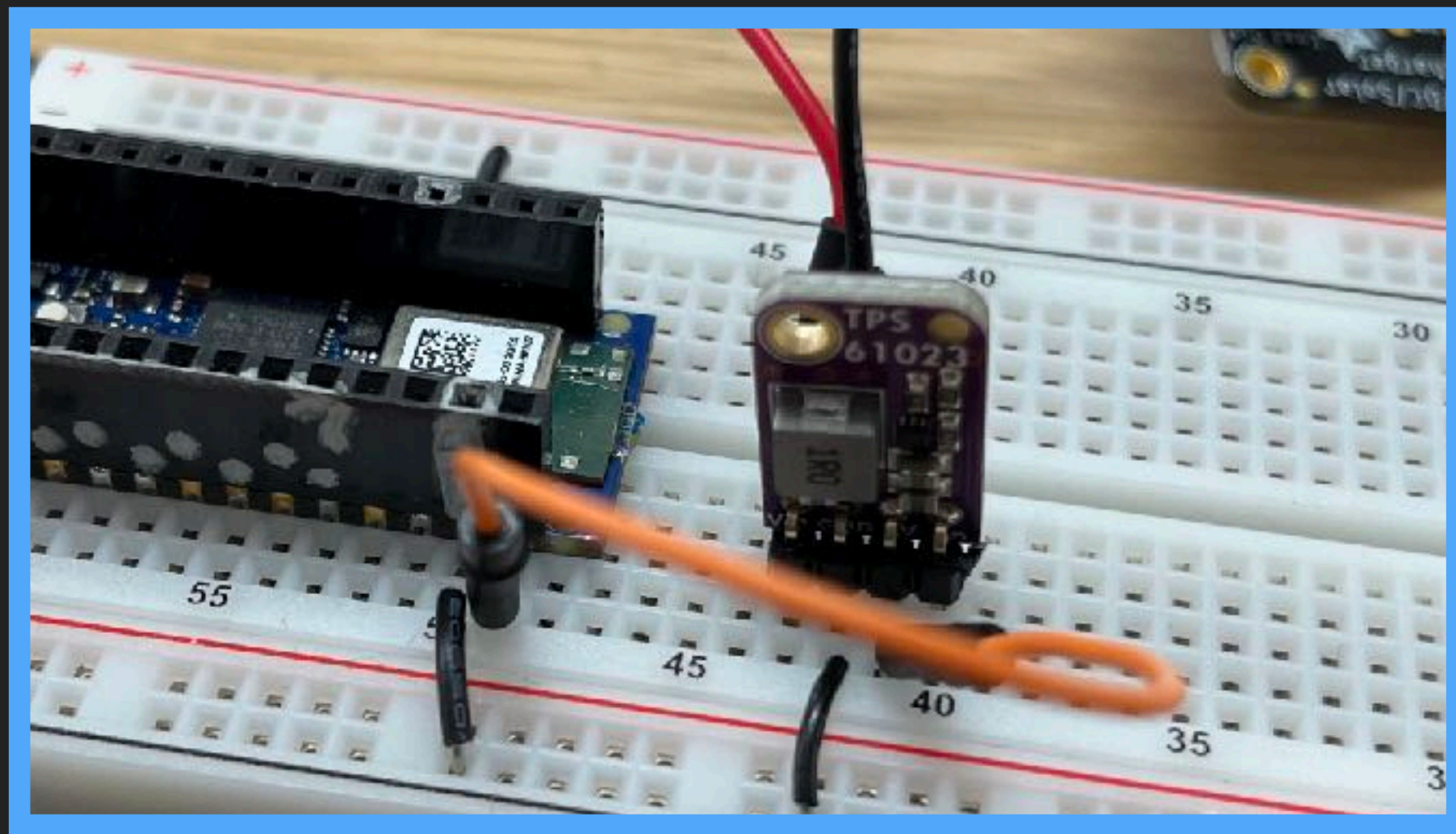
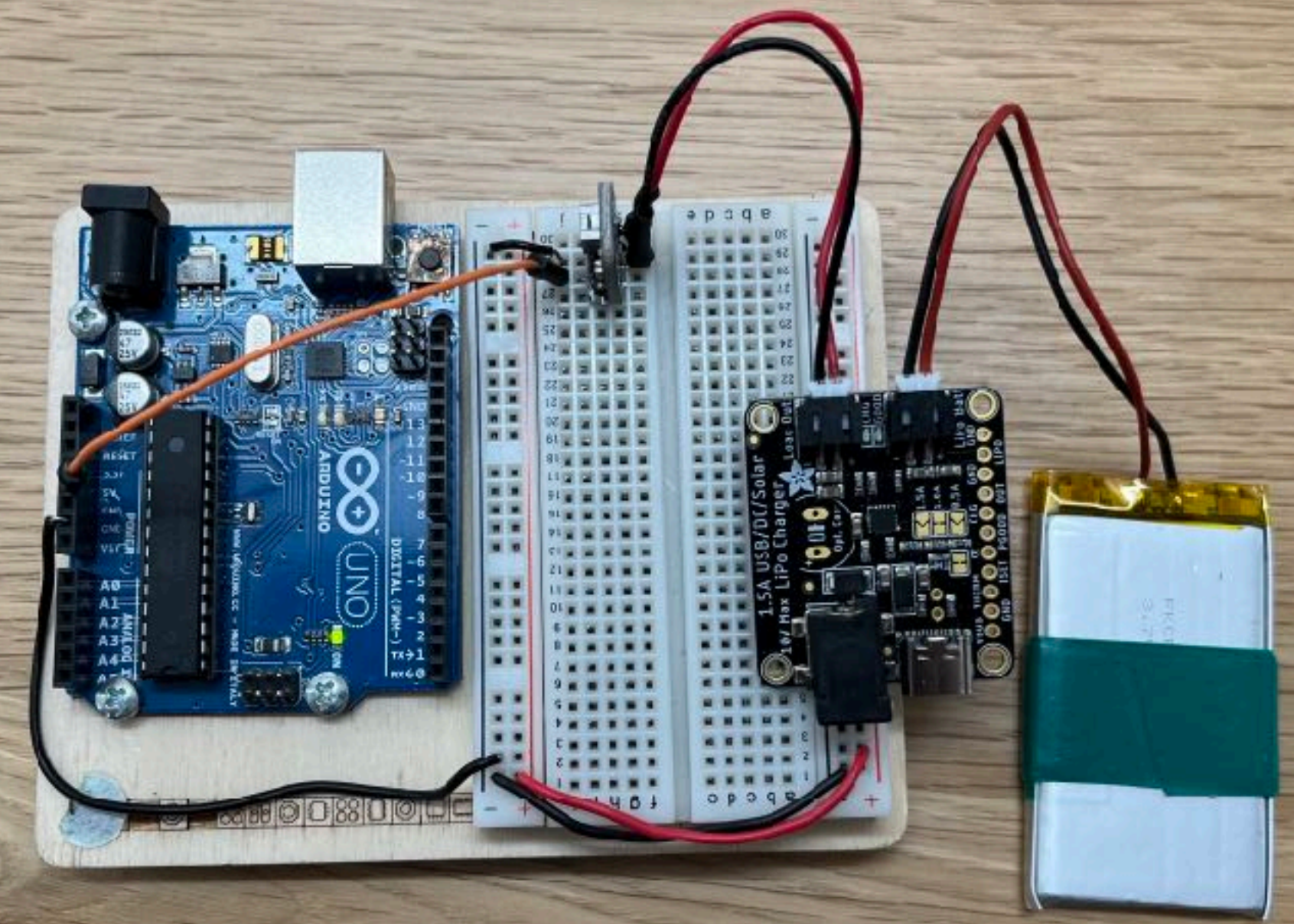
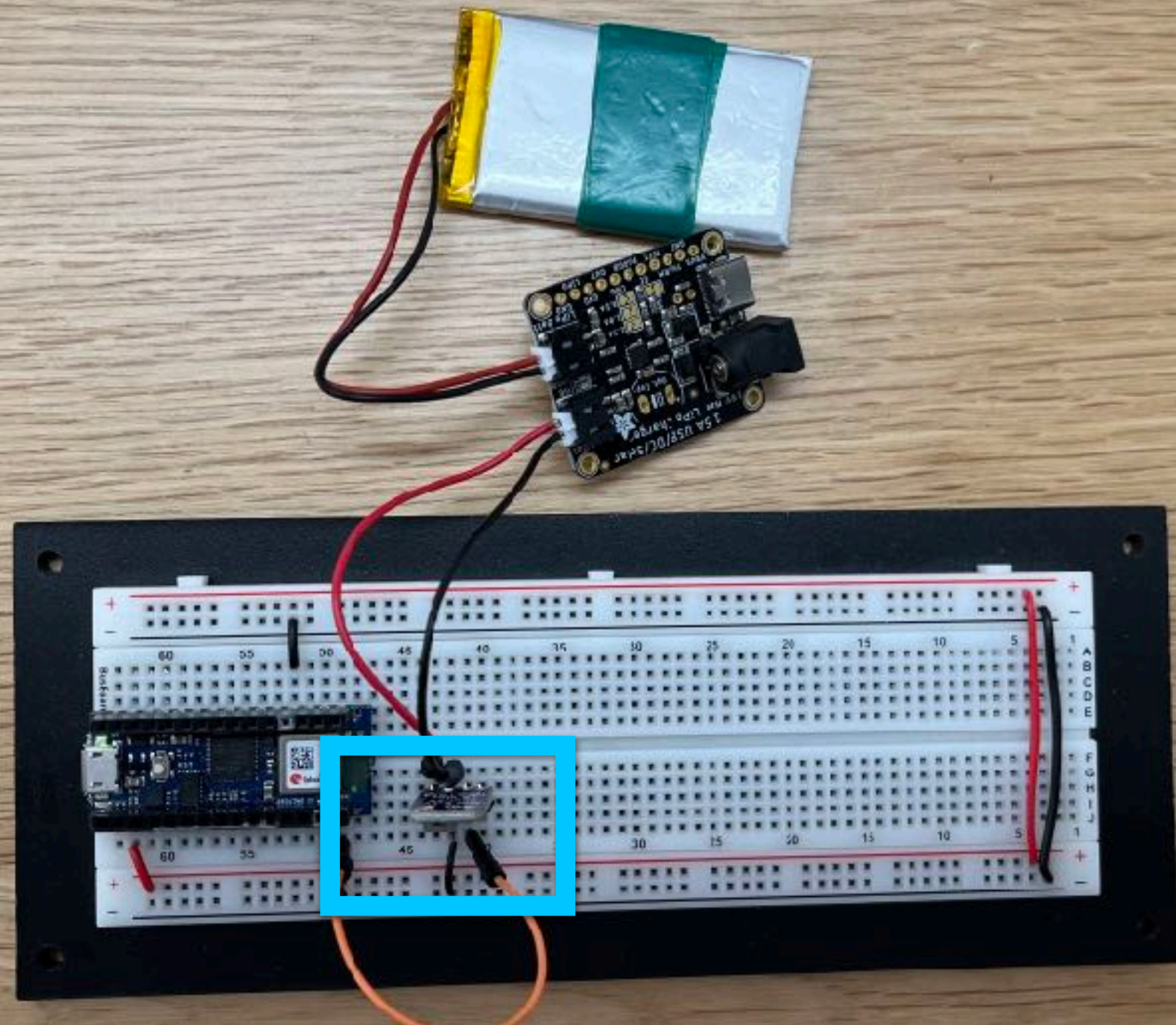
\*Works, unstable in some conditions: <https://docs.arduino.cc/learn/electronics/power-pins>



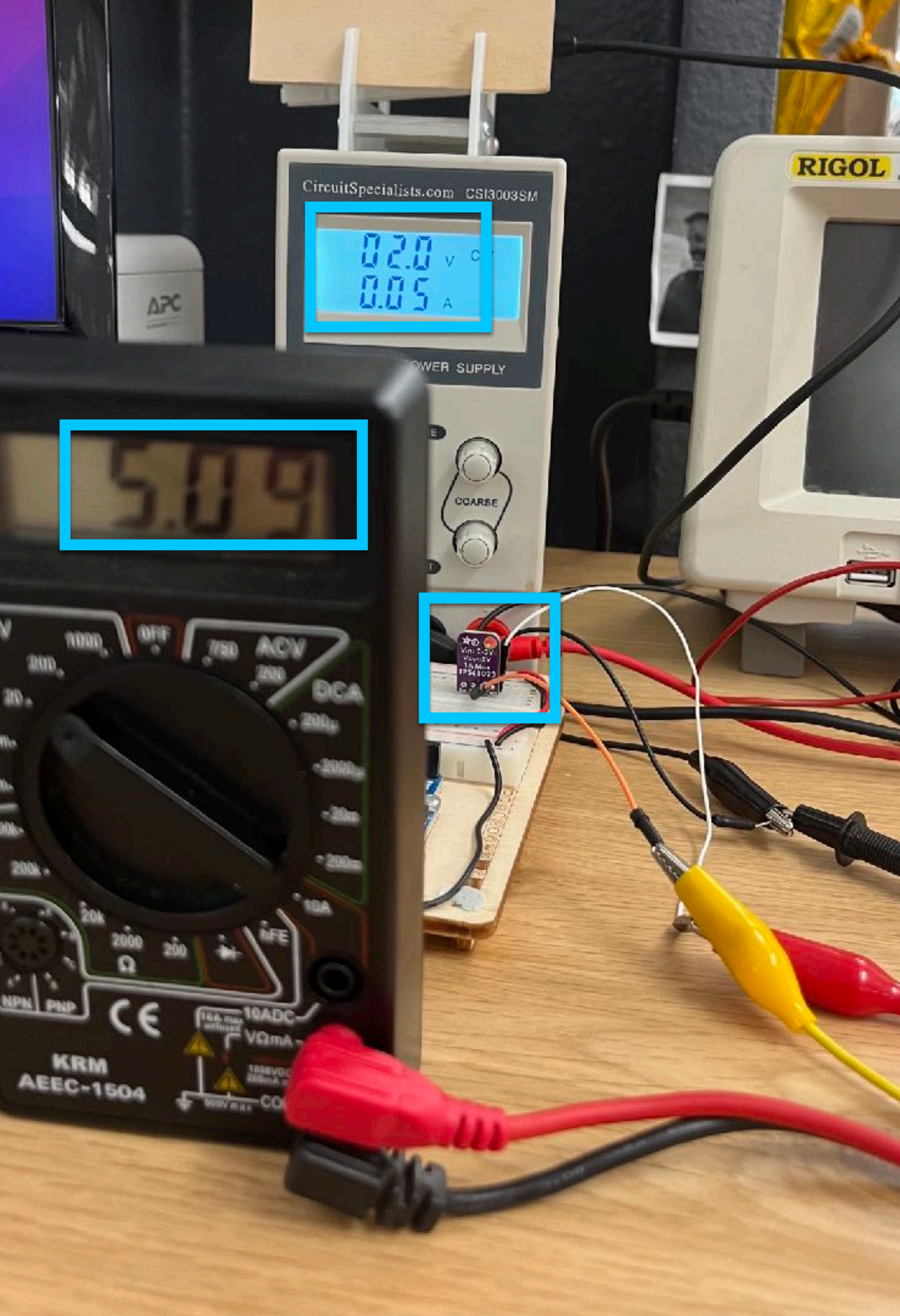
With PowerBoost 1000, 1.8-4V input to 5V@1000mA output



With MiniBoost 5V, 2-5V to 5V@1000mA output



With MiniBoost 5V, 2-5V to 5V@1000mA output



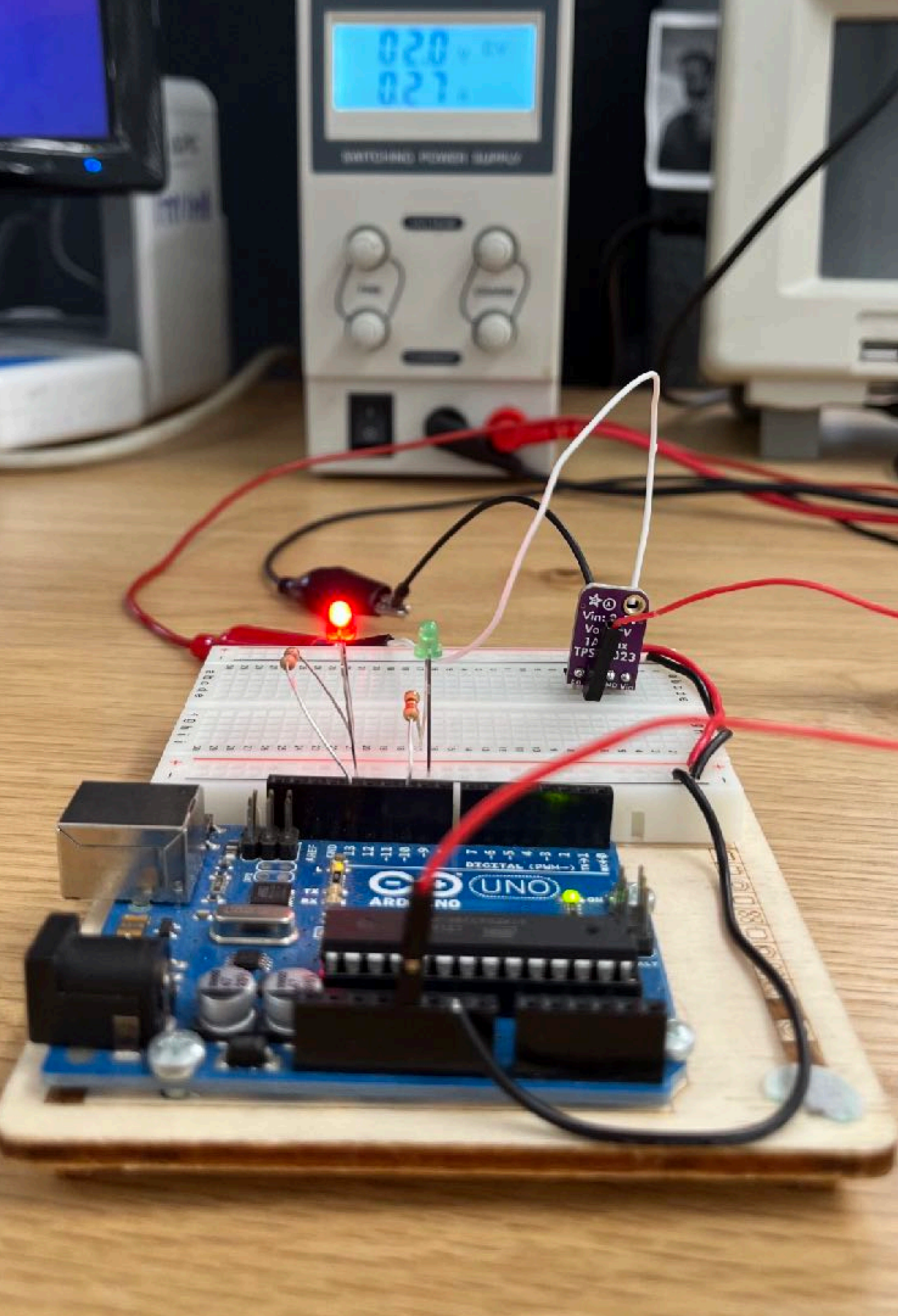
## MiniBoost testing detail:

2V input from DC Power Supply

5V output measured on multimeter

No battery needed...

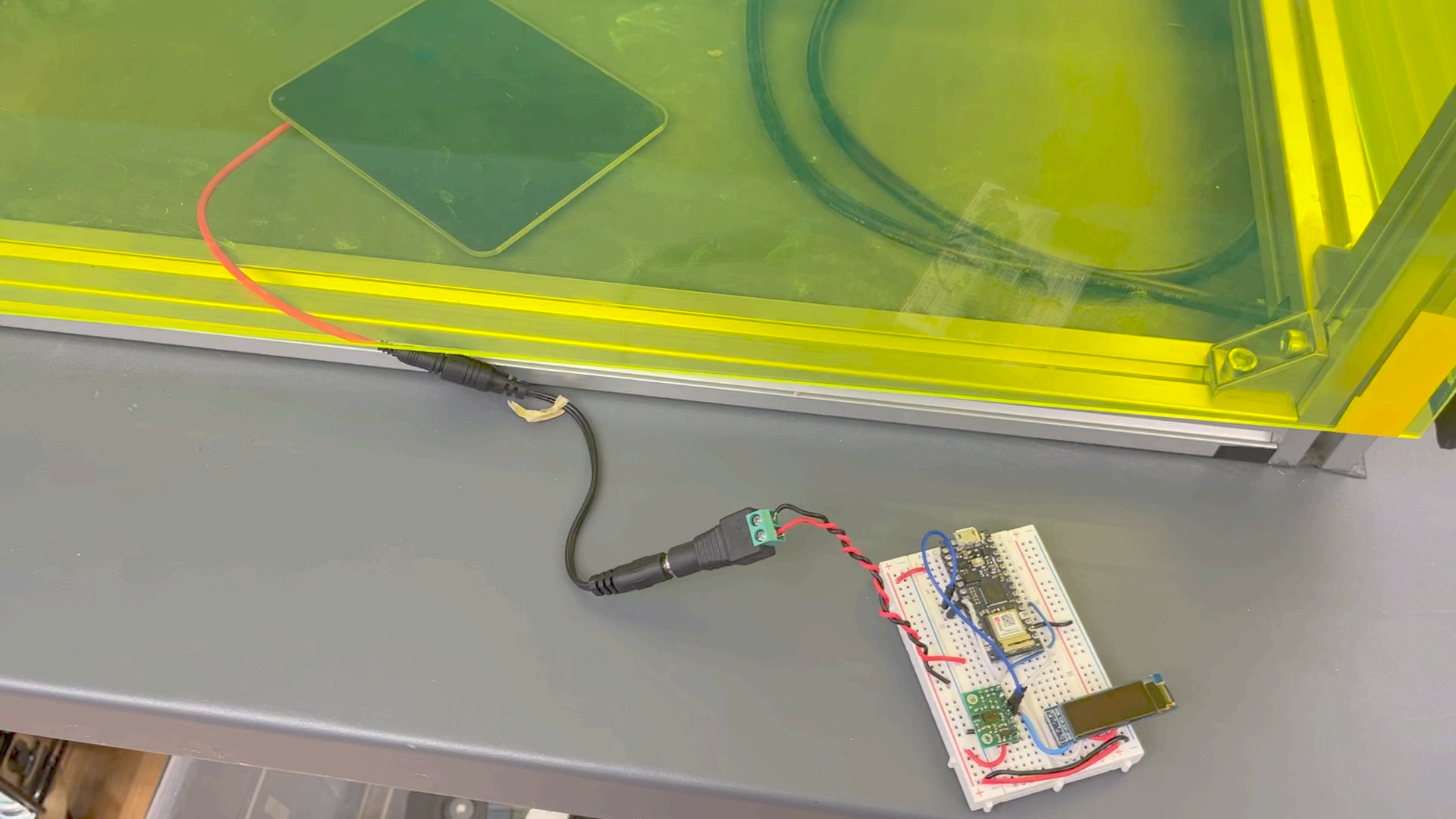


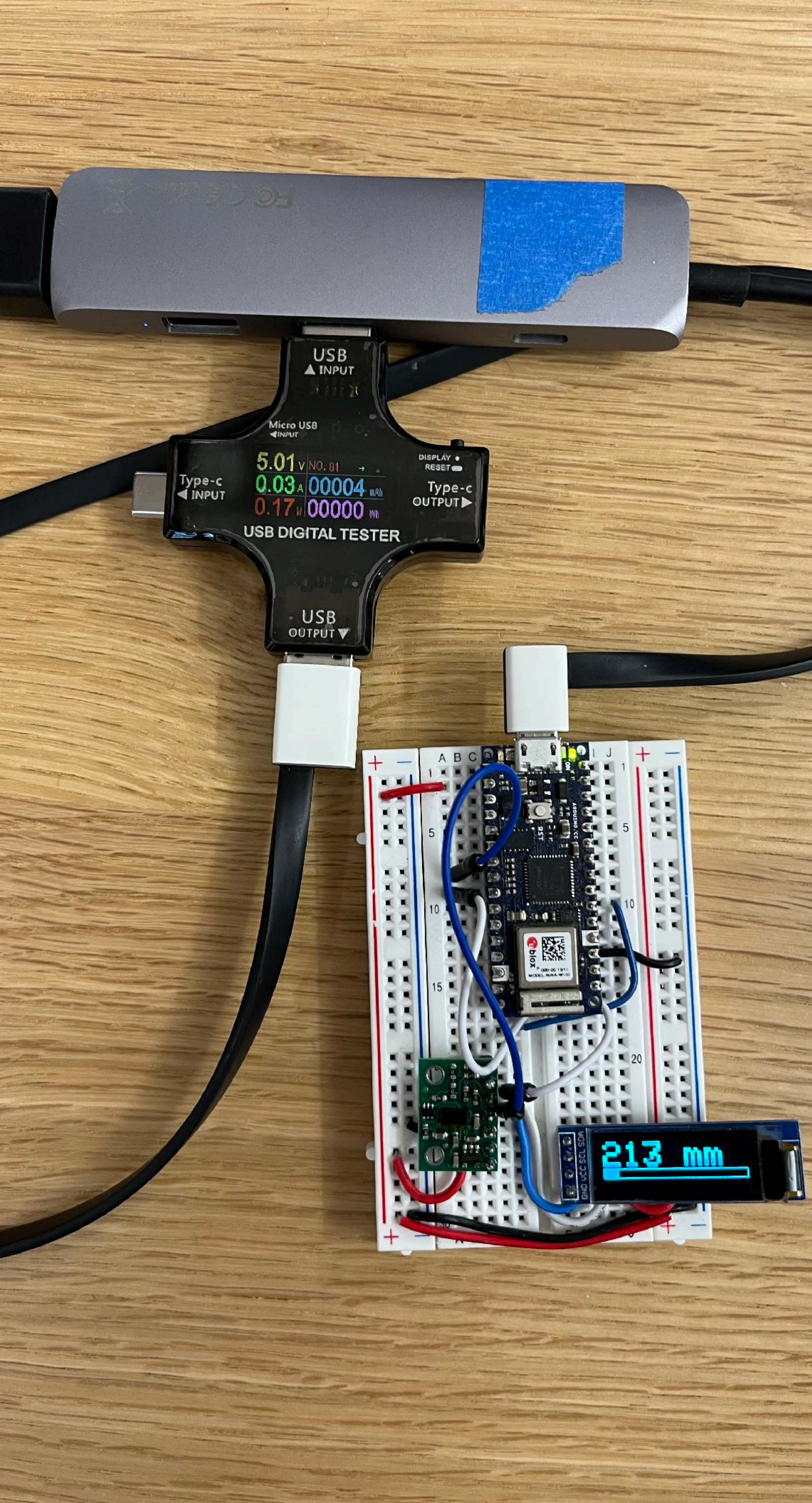


## MiniBoost testing detail:

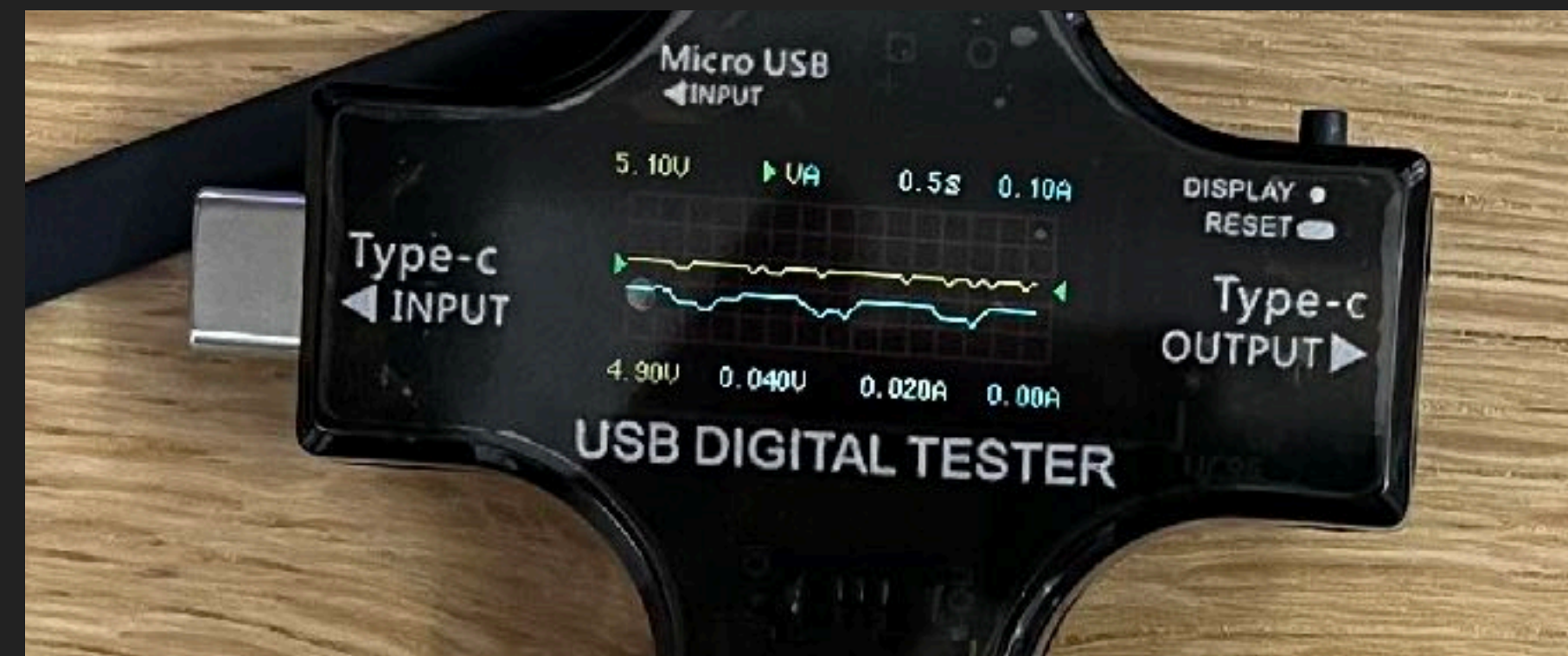
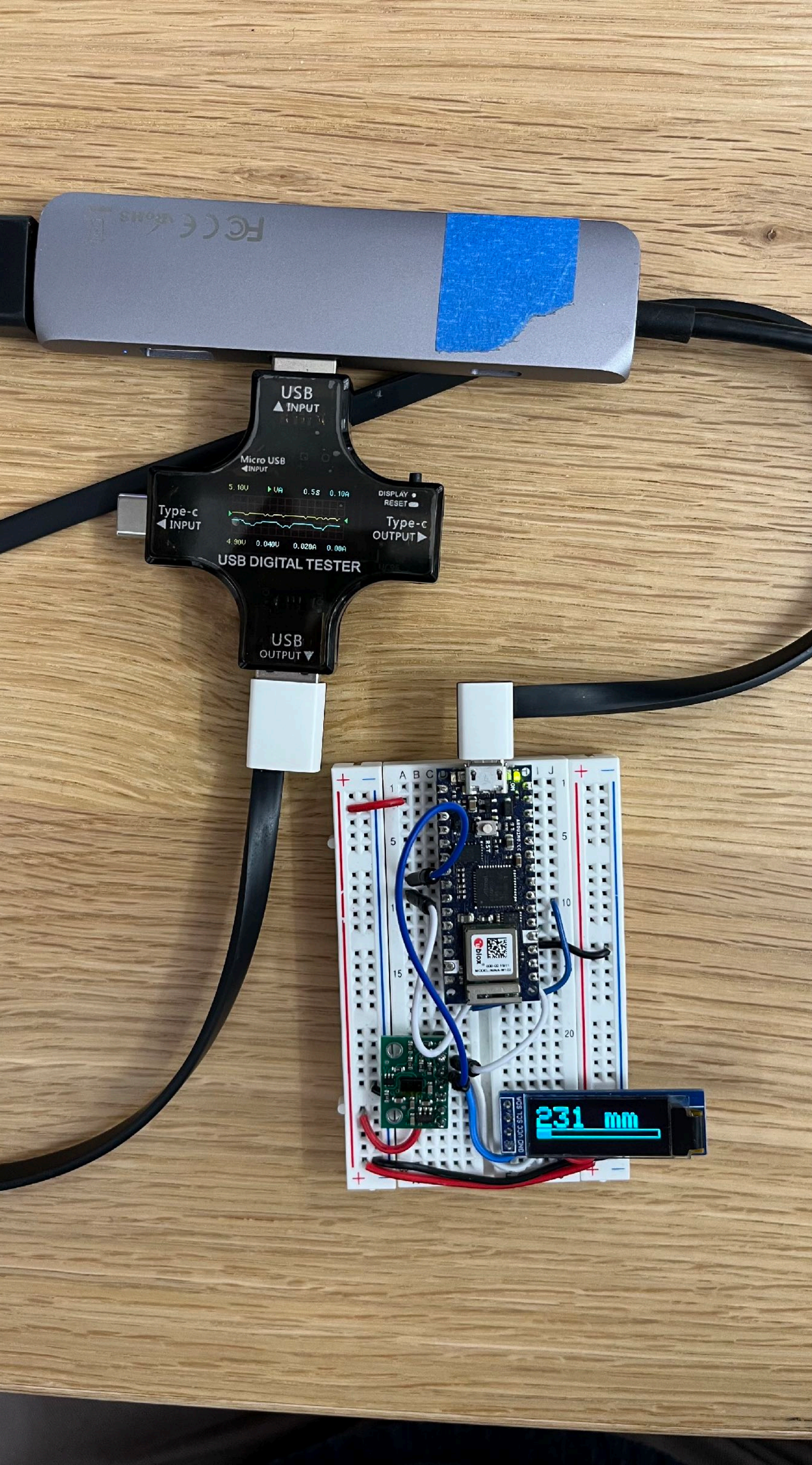
2V input from DC Power Supply  
5V functional project

No battery needed...

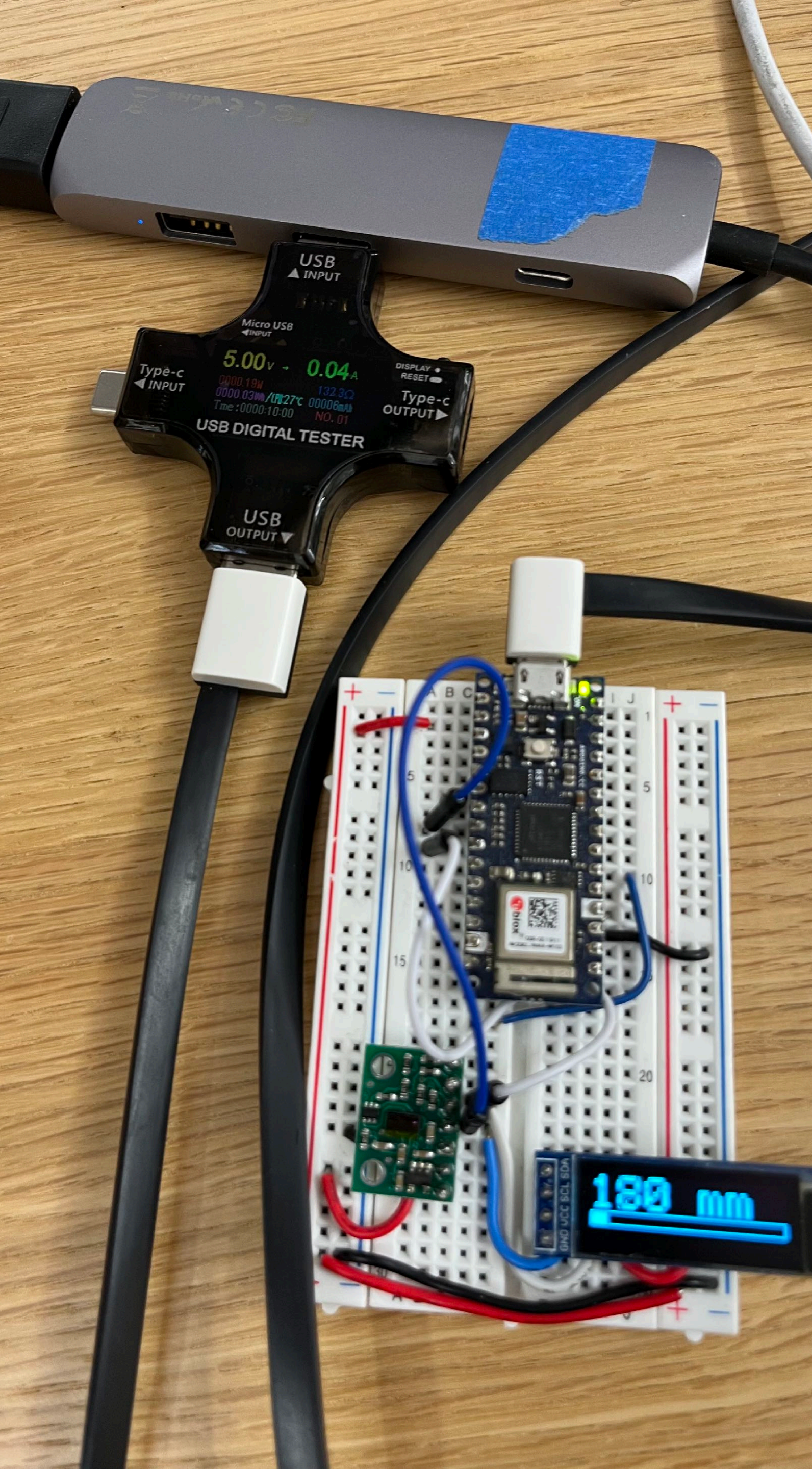




.03 - .04A  
.17W



Current stable over time



Long test confirms test:  
.03Wh / 10 minutes =  
.18W