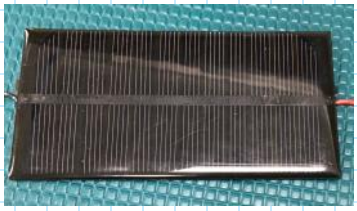
Energy harvesting board testing 1111

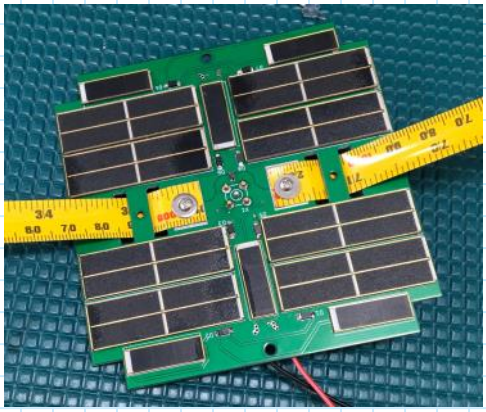
2019年11月11日 星期一 15:35

1. Apparatus:

Solar cell 1:

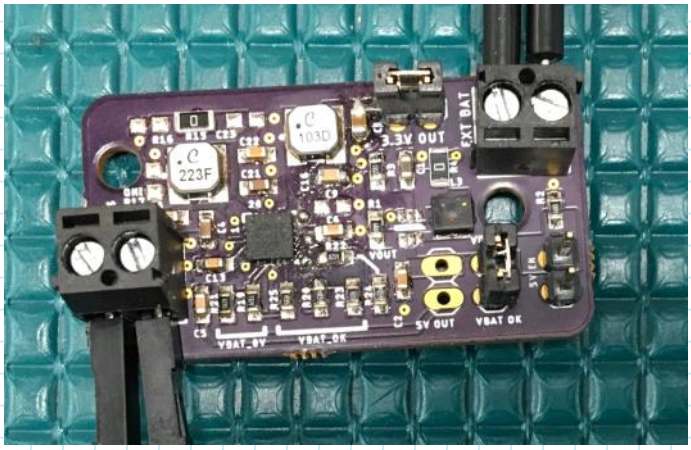


Solar cell 2:

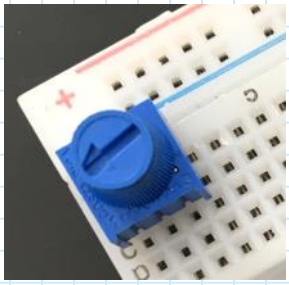


Battery:

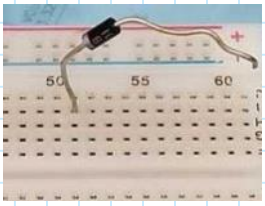
Energy Harvesting Board:



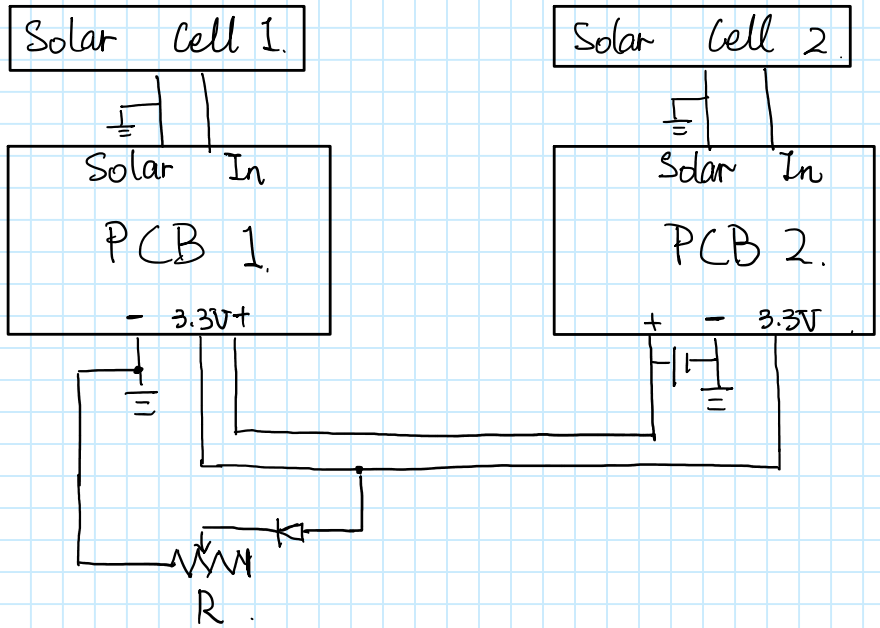
Potentiometer.

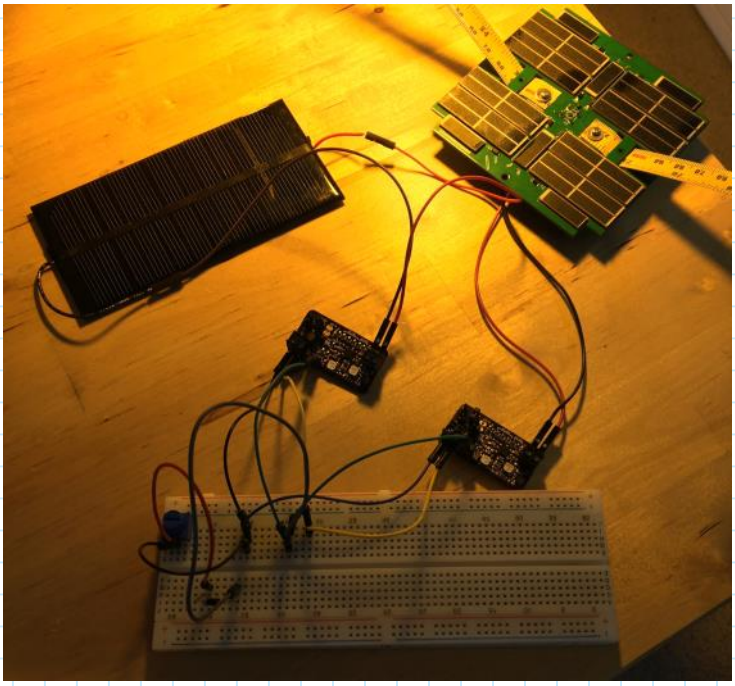


Diode.



2. Test 2 PCBs with lamp light and diode.





Case 1 : R = 146.2 [Ω].

Solar Cell 1 : 3.3 - 4.3 [V]

Solar Cell 2 : 2.3 - 2.6 [V].

1) Before connect diode & resistor.

PCB 1 : EXT BAT : 4.0 [V]

3.3V OUT : 3.265 [V].

PCB 2 : EXT BAT : 4.0. [V]

3.3V OUT : 3.265 [V].

2) After connect resistor.

PCB 1 : EXT BAT : 2.3-2.8 [V]

3.3V OUT : 0.3-0.4 [V].

PCB 2 : EXT BAT : 2.3-2.8 [V]

3.3V OUT : 0.3-0.4 [V].

3) After connect resistor and diode.

Solar Cell 1 : 2.2 - 2.6. [V]

Solar Cell 2 : 2.2 - 2.7 [V].

PCB 1 : EXT BAT : 2.3-2.8 [V]

3.3V OUT : 0.7-0.8 [V].

PCB 2 : EXT BAT : 2.3-2.8 [V]

3.3V OUT : 0.7-0.8 [V].

a) Only with PCB 1

3.3V OUT : 0.7 - 0.8 [V].

a) Only with PCB 1.

PCB 1 : EXT BAT : 2.4 - 2.7 [V]

3.3V OUT : 0.60 - 0.69 [V].

b) Only with PCB2.

PCB 2 : EXT BAT : 2.3 - 2.6 [V]

3.3V OUT : 0.62 - 0.65 [V].