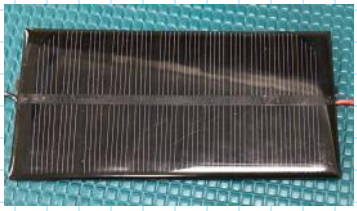
Energy harvesting board testing 1029

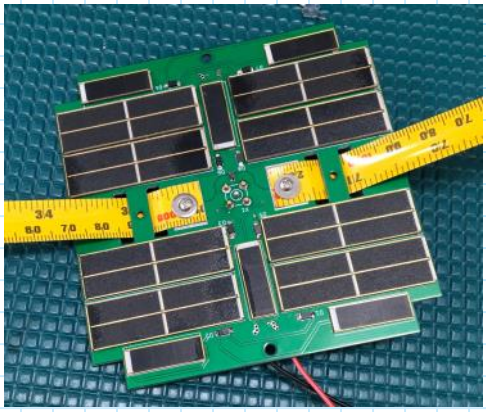
2019年10月29日 星期二 15:15

1. Apparatus:

Solar cell 1:

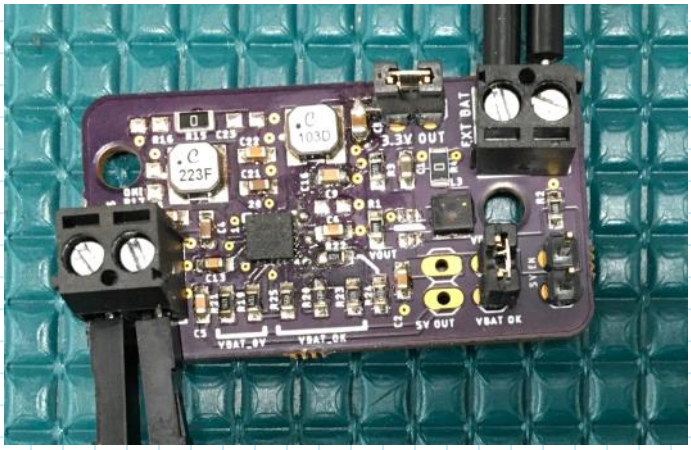


Solar cell 2:

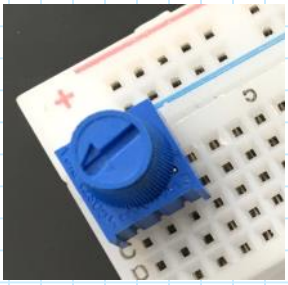


Battery:

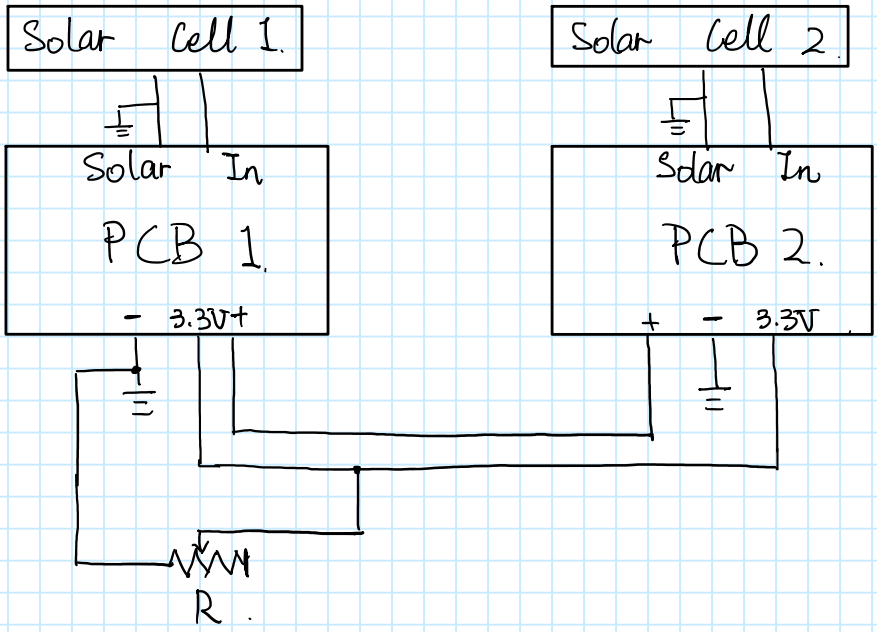
Energy Harvesting Board:

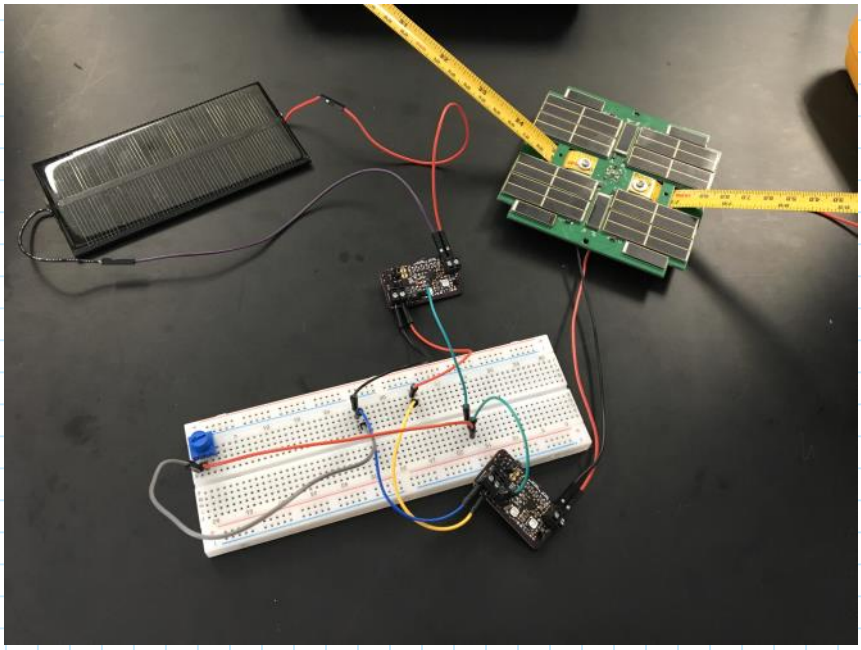


Potentiometer.



2. Test 2 PCB parallel with potentiometer.





Case 1 : R = 100 [Ω].
Solar cell 1 : 1.2 [V].
Solar cell 2 : 1.0 [V].
PCB 1 : EXT BAT : jumping 2.3 - 3.0 [V].
3.3V OUT : jumping 0 - 0,12 [V].
PCB 2 : EXT BAT : jumping 2.3 - 3.0 [V]
3.3V OUT : jumping 0 - 0,12 [V].

Case 2 : R = 56.3 [Ω].
Solar cell 1 : 1.2 [V].
Solar cell 2 : 1.0 [V].
PCB 1 : EXT BAT : jumping 2.3 - 3.0 [V].
3.3V OUT : jumping 0 - 0,05 [V].
PCB 2 : EXT BAT : jumping 2.3 - 3.0 [V]
3.3V OUT : jumping 0 - 0,05 [V].

Case 3 : R = 216 [Ω].
Solar cell 1 : 1.2 [V].
Solar cell 2 : 1.0 [V].
PCB 1 : EXT BAT : jumping 2.3 - 3.0 [V].
3.3V OUT : jumping 0 - 0,2 [V].
PCB 2 : EXT BAT : jumping 2.3 - 3.0 [V]

3.3 V OUT : jumping 0 - 0,2 [V].

PCB 2 : EXT BAT : jumping 2.3 - 3.0 [V]

3.3V OUT : jumping 0 - 0,2 [V].

All cases indicate that current through 3.3V OUT is around 1 [mA].