Energy harvesting board testing 1112

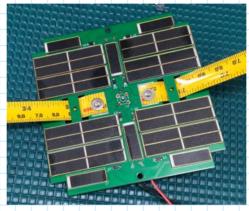
2019年11月11日 星期一

1. Apparatus:

Sdar cell 1:



Solar cell 2:

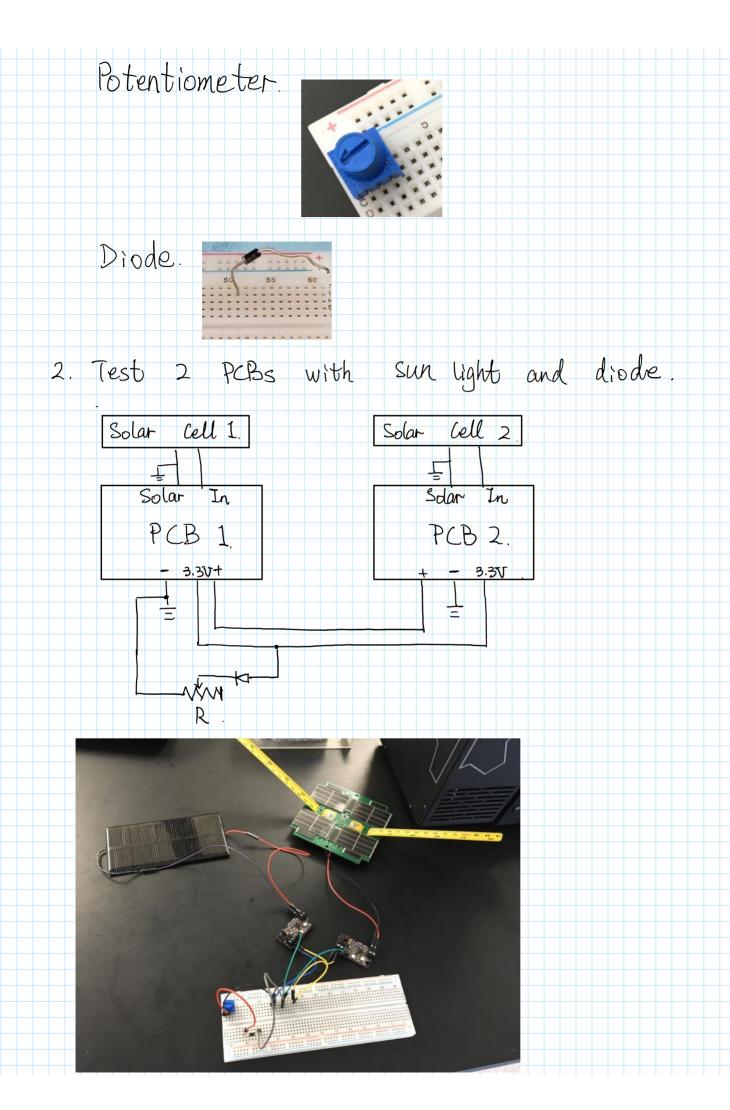


Battery:

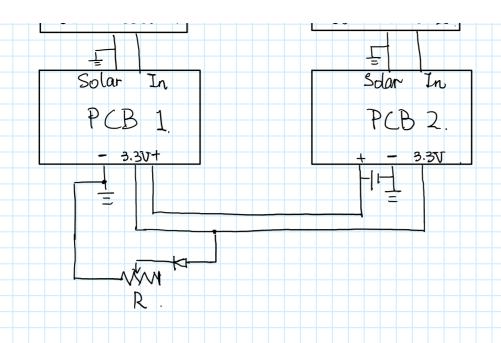


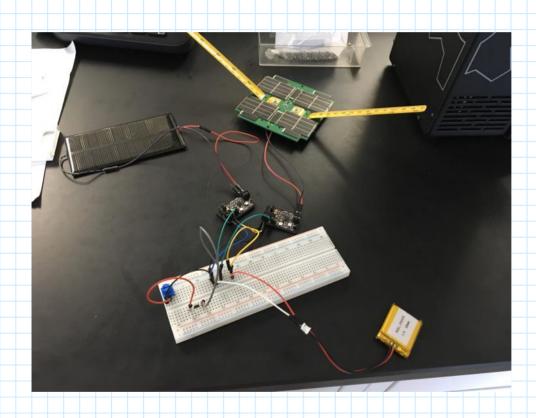
Energy Harvesting Board:





Case 1: R= 146.4. [1]. Sdar Cell 1: 3.98 [V] Solar Cell 2: 3.98 CV]. 1) Before connect diode & resistor. PCB 1: EXT BAT: 4, 1 EVI 3.3 V OUT : 3.22 [[V] PCB 2. EXT BAT: 4, 1 [V] 3.37 OUT: 3.25 [V]. 2) After connect resistor. PCB 1 : EXT BAT : 4.1 [V] 3.3 V OUT : 3.255 LV] PCB 2: EXT BAT: 4.1 LU] 3.37 OUT : 3.27. [LV]. 3) After connect resistor and diode. Solar Cell 1: 3.85 [V] Solar Cell 2. 3.96. [V]. PCB 1 , EXT BAT , 4,1 [V] 3.3 V OUT . 3.28 [V] PCB 2: EXT BAT: 4.1 LUI 3.37 OUT: 3.28 [TV]. a) Only with PCBI PCB 1 : EXT BAT : 4,1 EVJ 3.3 V OUT : 3.28 [V] b) Only with PCB2. PCB 2: EXT BAT: 3.4-3.7 [V] 3.3 V OUT : 1.3 -1.5 [V] 3. Charge battery with sunlight and diode Solar Cell 1. Solar Cell 2.





Case 1: R= 146,4 [1].

PCB 1 : EXT BAT : 3.735 EVI

3.3 V OUT : 3.291 [V]

PCB 2: EXT BAT: 3.729 [U]

3.37 OUT : 3,288. [V].

Battery Voltage:

Before connects: 3.720 [V]

During connect: 3-7 29 IV]

Before connect: 3. (20 LV).

During connect: 3-7 29 LV].

After connect: (5 mins) 3.722 [V]. After charging 5 mins, charging current = 14,7 [mA].