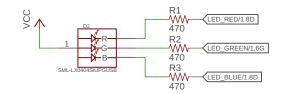
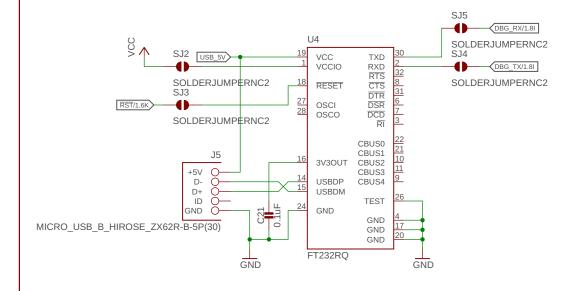
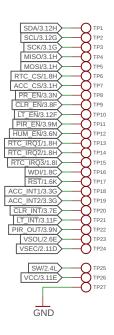


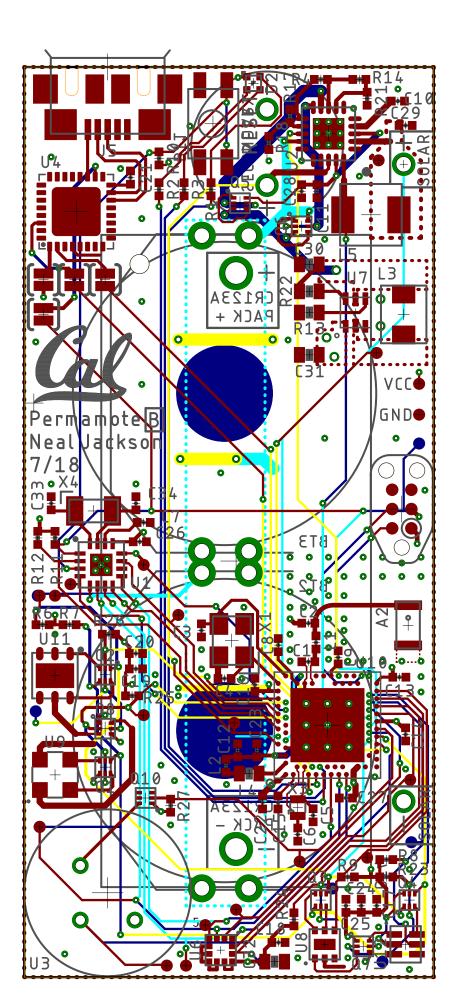
# Debugging

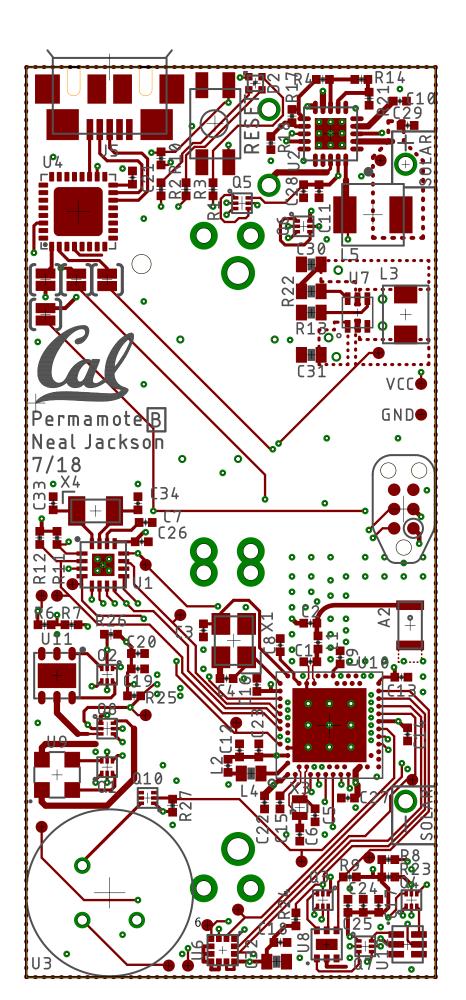


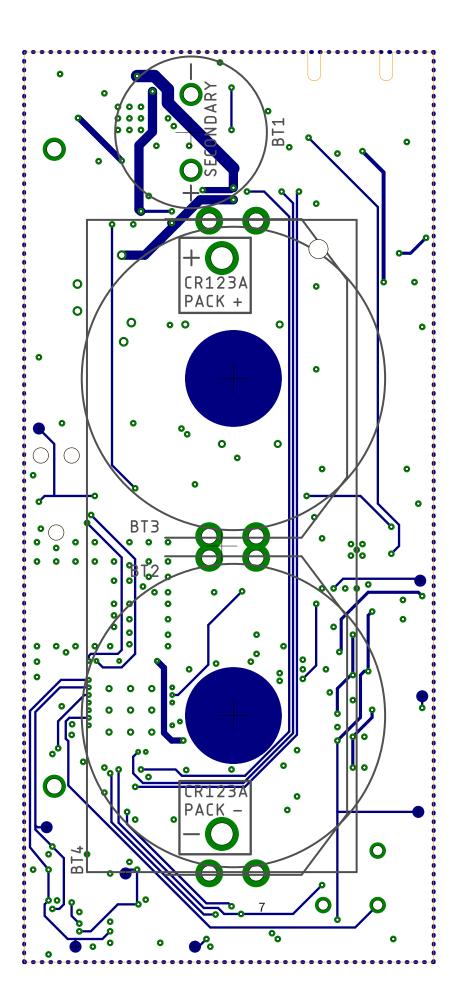


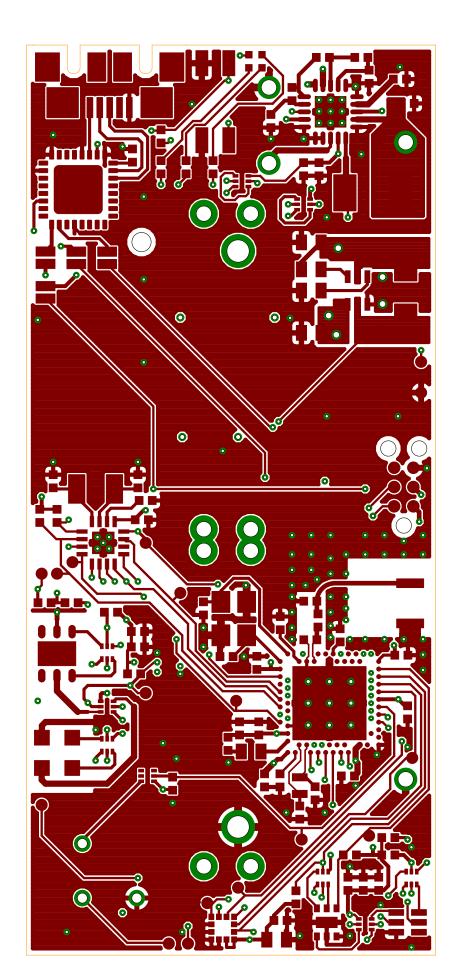


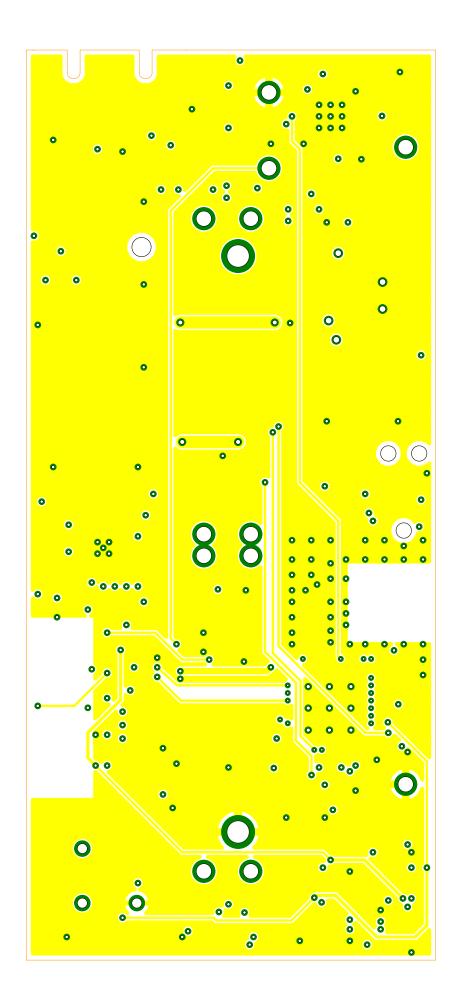
	REV:
PERMAMOTE	В
Author: NEAL JACKSON	
Date: 7/23/18 11:33 AM Sheet: 4	./

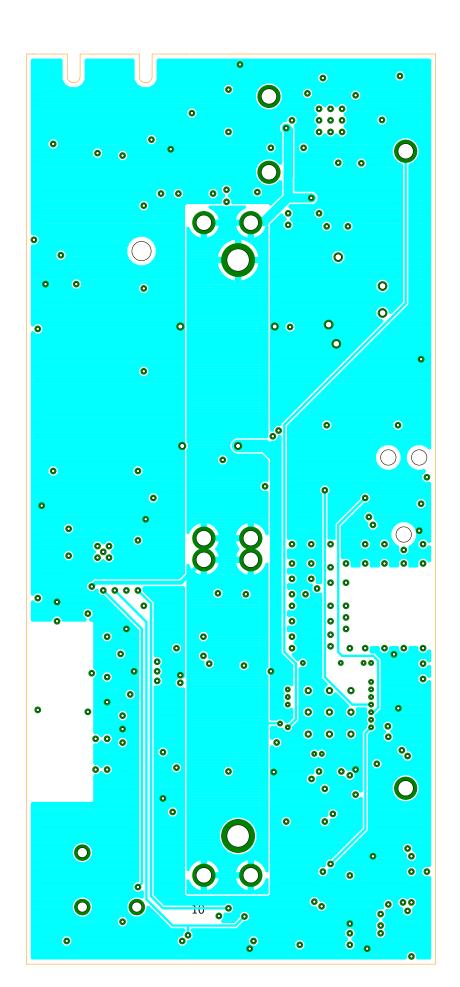


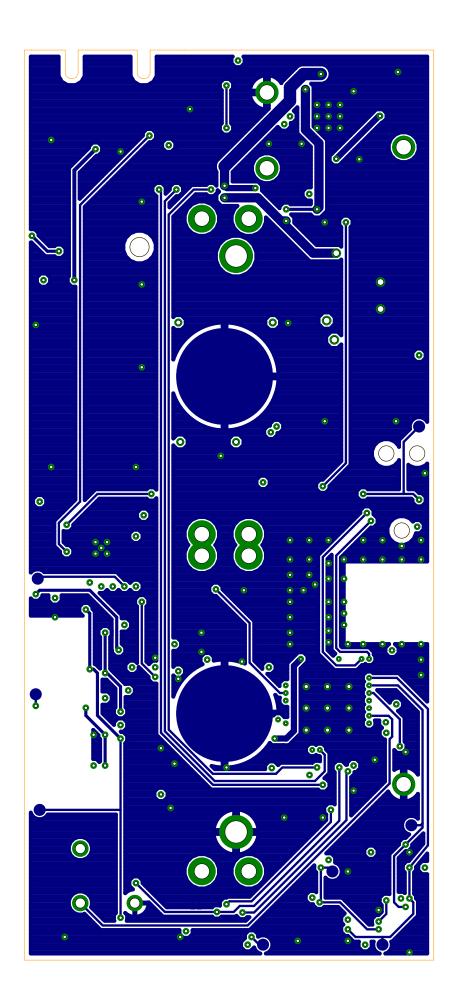


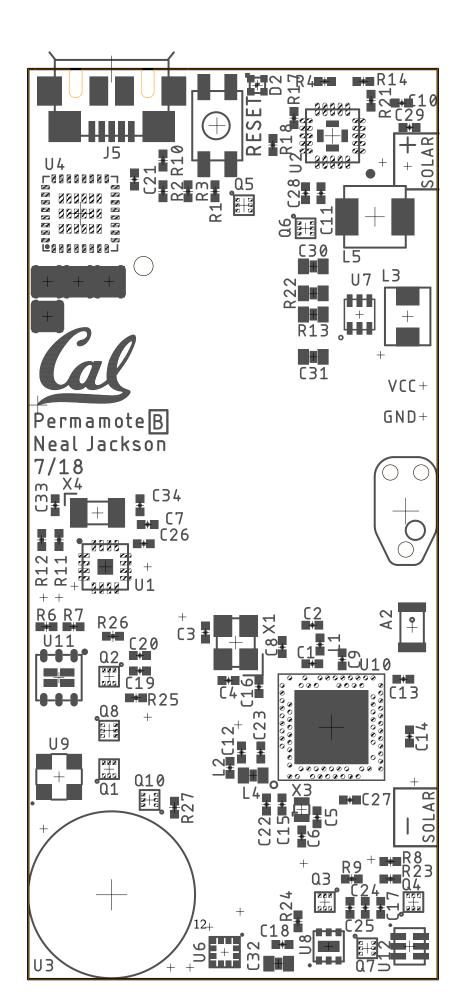


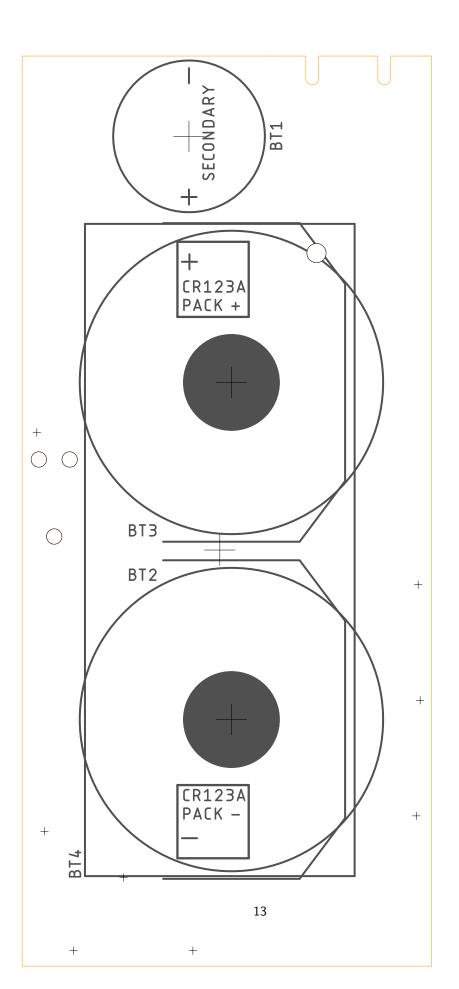




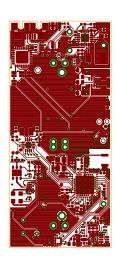


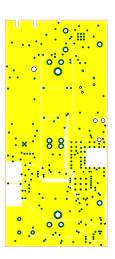


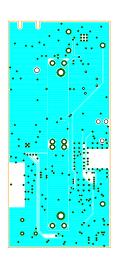


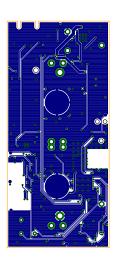












1	_
Qty Value	Device
9 0.1uF	CAPACITOR0402 CAP
5 100M	RESISTOR0402_RES
1100pF	CAPACITOR0402_CAP
5 10k	RESISTOR0402_RES
2 10nF	CAPACITOR0402_CAP
3 10uF	CAPACITOR0603_CAP
1 10uH	INDUCTOR0603
4 12pF	CAPACITOR0402_CAP
1 15nH	INDUCTOR0402
2 1pF	CAPACITOR0402_CAP
5 1uF	CAPACITOR0402_CAP
1 1uH	INDUCTORIHL
1 22uH	INDUCTOR74437324220
1 3.9M	RESISTOR0402 RES
13.9nH	INDUCTOR0402
1 32.768kHz	ABS05-32.768KHZ-9-T
1 32MHz	7V-32.000MAHV-T
1 33M	RESISTOR0603 RES
3 4.7uF	CAPACITOR0402_CAP
	RESISTOR0402 RES
1 47nF	CAPACITOR0402_CAP
1 47pF	CAPACITOR0402_CAP
1 6.04k	RESISTOR0402_RES
1 6.2M	RESISTOR0402_RES
1 6.8M	RESISTOR0402_RES
1 80.6k	RESISTOR0603 RES
1 820pF	CAPACITOR0402_CAP
1 9.1M	RESISTOR0402_RES
1 AB1815-T3	AB1815-T3
1 ABS07-32.768KHZ-7-T	ABS07-32.768KHZ-7-T
1 ANT3216A063R2400A	ANT3216A063R2400A
2 BAT-HLD-002-THM	BAT-HLD-002-THM
1 BAT PACKCR123A	BAT PACKCR123A
1 BQ25505	BQ25505
2 DNP	CAPACITOR0402_CAP
2 DNP	RESISTOR0402_RES
1 EKMB1101111	EKMB1101111
1 EVQP2	EVQP2
1 FT232RQ	FT232RQ
1 LIS2DW12	LIS2DW12
1 LTOHTC1020	LTOHTC1020
1 MAX17222	MAX17222
1 MAX44009	MAX44009
1 MICRO_USB_B_HIROSE_ZX62R-B-5P(30)	
1 MS5637-02BA03	MS5637-02BA03
1 NRF52840	NRF52840
9 PMDXB950UPEL	PMDXB950UPEL
1 SI7021-A20-GM1	SI7021-A20-GM1
1 SML-LX0404SIUPGUSB	SML-LX0404SIUPGUSB
T 9MIC-FV04049I0L009p	SIVIL-LAU4U4SIUPGUSB

1 SOLARCELLHOLES 1 TCS34725 SOLARCELLHOLES TCS34725

0402 RES 0402\_CAP 0402\_RES 0402\_CAP 0603\_CAP 0603\_CAP 0402\_CAP 0402\_CAP 0402 CAP 0402\_CAP IHL-1212BZ-11 74437324220 0402\_RES 0402\_CAP ABS05 TXC-7V 0603-RES 0402\_CAP 0402\_RES 0402\_CAP 0402\_CAP 0402\_RES 0402\_RES 0402\_RES 0603-RES 0402\_CAP 0402\_RES QFN-16-3MM 2-SMD ANT3216A063R2400A BAT-HLD-002-THM BH123A S-PVQFN-N20-RGR 0402 CAP 0402\_RES AMN2 EVQP2 QFN32 LGA-12 1020 **UDFN-6-MAXIM** UDFN-6-EXPOSED MICRO\_USB\_B\_HIROSE\_ZX62R-B-5P(30) 4-SMD AQFN73 XDFN-6 DFN-6/3MM 1MM\_SQ\_4PAD

Package 0402\_CAP

SOLAR\_HOLES FN-6

```
Parts
C13, C14, C15, C16, C17, C18, C19, C20, C21
R23, R24, R25, R26, R27
R8, R9, R10, R11, R12
C10, C11
C30, C31, C32
L4
C3, C4, C5, C6
L2
C1, C2
C22, C23, C24, C25, C26
L3
L5
R14
L1
Х3
X1
R22
C27, C28, C29
R1, R2, R3
C12
C7
R4
R17
R18
R13
C9
R21
U1
X4
Α2
BT2, BT3
BT4
U2
C33, C34
R6, R7
U3
S1
U4
U6
BT1
U7
U8
J5
U9
U10
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10
U11
D2
```

D1 U12

Description
SMD Capacitor
Resistor

**SMD Capacitor** 

Resistor

**SMD Capacitor** 

**SMD Capacitor** 

A very specific inductor

**SMD Capacitor** 

A very specific inductor

**SMD** Capacitor

**SMD Capacitor** 

A very specific inductor

A very specific inductor

Resistor

A very specific inductor

32.768kHz Crystal

TXC CRYSTAL SMD

Resistor

**SMD Capacitor** 

Resistor

**SMD** Capacitor

**SMD Capacitor** 

Resistor

Resistor

Resistor

Resistor

**SMD Capacitor** 

Resistor

Ultra-low current RTC. 55nA quiescent @ 3V. 1.5-3.6V input.

32.768kHz Crystal

Yageo 2.4GHz

RETAINER BATT CR2016 PC PINS

collection of battery footprints

EH front end for switching between primary and secondary cells

**SMD Capacitor** 

Resistor

Passive infrared human detection sensor with built-in amp.

SWITCH TACTILE SPST-NO 0.02A 15V

Source: http://www.ftdichip.com/Documents/DataSheets/DS\_FT232R\_v104.pdf

ultra low power 3 axis accelerometer

Very high efficiency, very low power boost converter suitable for EH applications

low power ambient light sensor

**USB Micro B Connector** 

low power pressure sensor

ultra-low power 2.4 GHz wireless system on chip (SoC) integrating a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-M-20 V 500mA, dual P-channel Trench MOSFET

IC TEMP SENSOR RH 2% DFN

1mm<sup>2</sup> RGB LED

Generic solar cell Color Light-to-Digital Converter with IR Filter

DIGIKEY 490-6328-1-ND HMC0402JT100MCT-ND 490-5922-1-ND 311-10KJRCT-ND 490-4516-1-ND 490-3896-1-ND 490-4025-1-ND 490-6197-1-ND 587-1521-1-ND 1276-1595-1-ND		MF	MOUSER
541-1319-1-ND 732-3340-1-ND YAG3301CT-ND 490-1131-1-ND	Vishay Dale		
535-11897-1-ND 887-2568-1-ND HMC0603JT33M0CT-ND 445-5947-1-ND 311-470JRCT-ND 445-1264-1-ND 490-5942-1-ND YAG2293CT-ND YAG3309CT-ND YAG3310CT-ND 311-80.6KHRCT-ND 1276-6535-1-ND YAG3322CT-ND 535-11936-1-ND 535-9543-1-ND 311-1542-1-ND BAT-HLD-001-THM-ND BH123A-ND 296-37078-1-ND	Abracon TXC CORPORATION  Abracon ABRACON YAGEO  MPD TI		712-BAT-HLD-001-THM
311-10KJRCT-ND 255-3065-ND P11084SCT-ND	PANASONIC		
	STMicroelectronics		511-LIS2DW12TR
MAX17222ELT+TCT-ND MAX44009EDT+TCT-ND H125274CT-ND 223-1199-1-ND 1490-1071-1-ND			798-ZX62R-B-5P30
1727-2601-1-ND 336-3141-ND 67-2125-1-ND	NEXPERIA  Lumex Opto		634-SI7021-A20-GM1

869-1001-ND TCS34725FNCT-ND

MPN NEWARK OC\_FARNELL OC\_NEWARK

GRM155R71C104KA88J

HMC0402JT100M

GRM1555C1H101JA01D

RC0402JR-0710KL

GRM155R71H103KA88D

GRM188R60J106ME47D

LQM18FN100M00D

GRM1555C1H120GA01D

HK100515NJ-T

CL05C010CB5NNNC

GRM155R70G105KA12D

IHLP1212BZER1R0M11

74437324220

RC0402JR-073M9L

LQP15MN3N9B02D

ABS05-32.768KHZ-9-T

7M-32.000MAHV-T

HMC0603JT33M0

C1005X5R0J475K050BC

RC0402JR-07470RL

C1005X7R1C473K050BC

GRM1555C1H470JA01D

RC0402FR-076K04L

RC0402JR-076M2L

RC0402JR-076M8L

RC0603FR-0780K6L

CL05B821KO5NNNC

RC0402JR-079M1L

AB1815-T3

ABS07-32.768KHZ-7-T

ANT3216A063R2400A

BAT-HLD-001-THM

BH123A

BQ25505RGRR

RC0402JR-0710KL

EKMB1101111

EVQ-P2K02Q

FT232RQ

1146033 91K9919

LIS2DW12TR

MAX17222ELT+T

MAX44009EDT+T

ZX62R-B-5P(30) 84Y6712

MS563702BA03-50

NRF52840

PMDXB950UPELZ

SI7021-A20-GM1

SML-LX0404SIUPGUSB

AM-1454CA TCS34725FN Notes

DNP

DNP

DNP

DNP

DNP