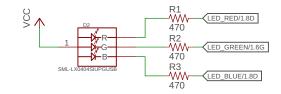
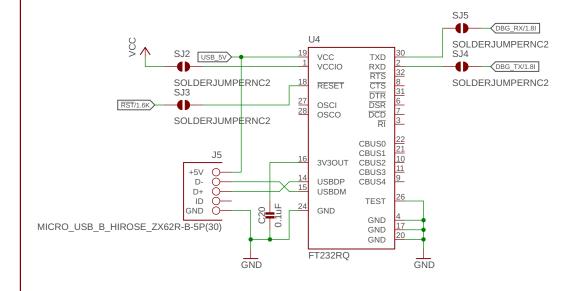
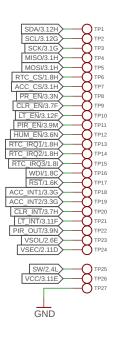


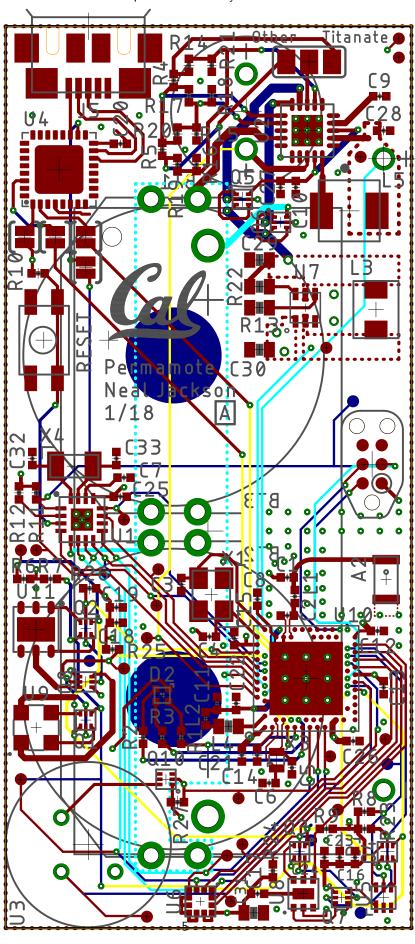
Debugging

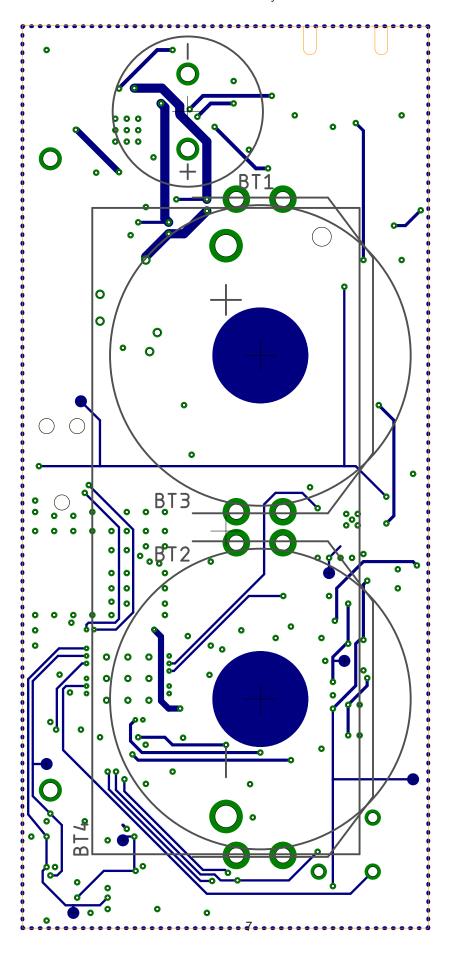


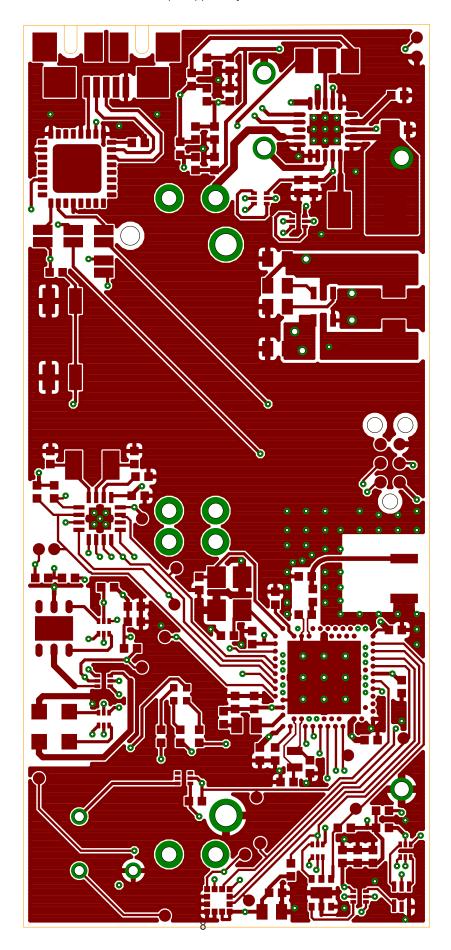


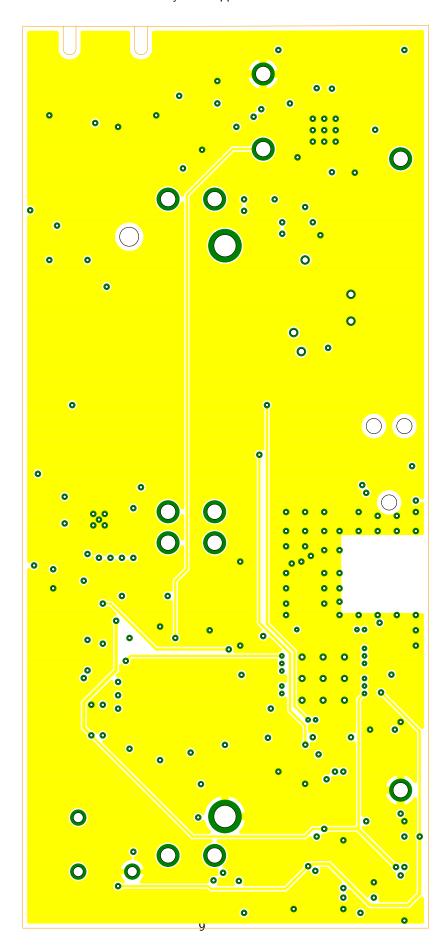


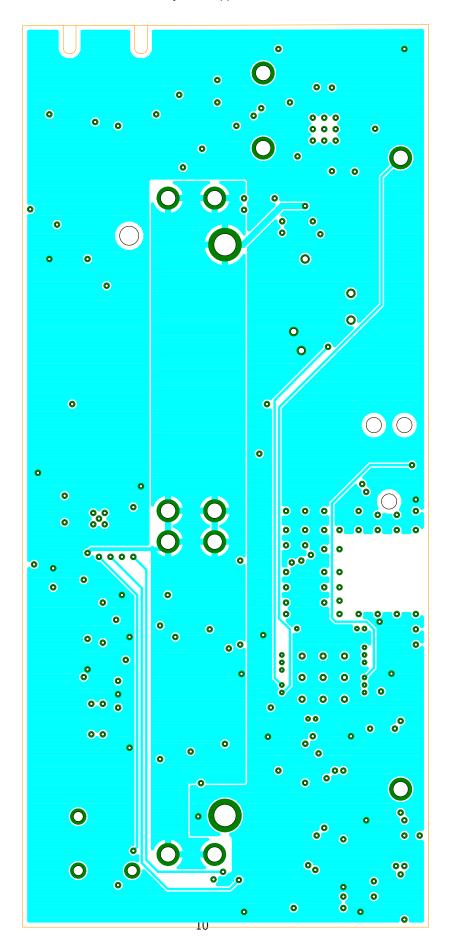
	REV:
MOTE	А
Author: NEAL JACKSON	·
Date: 1/23/18 2:00 PM Sheet:	4/4

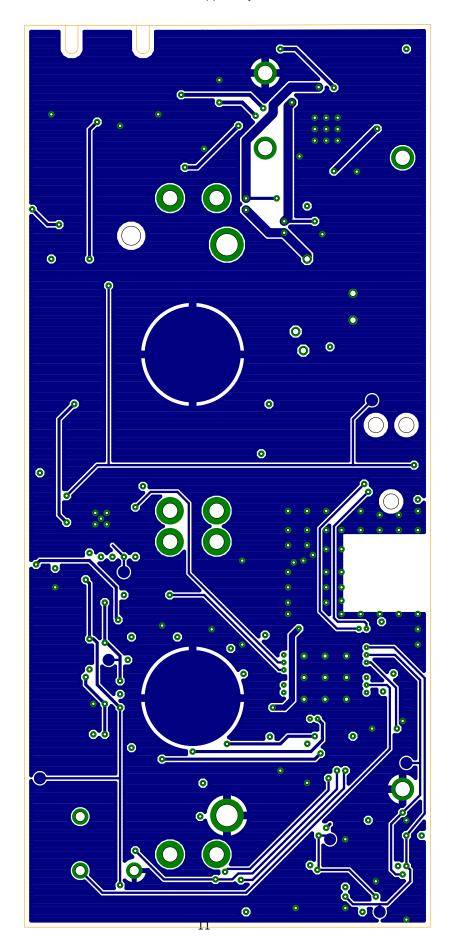


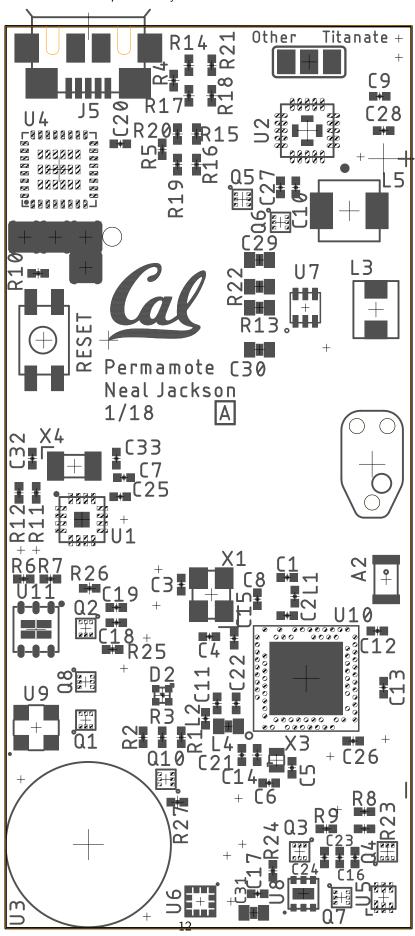


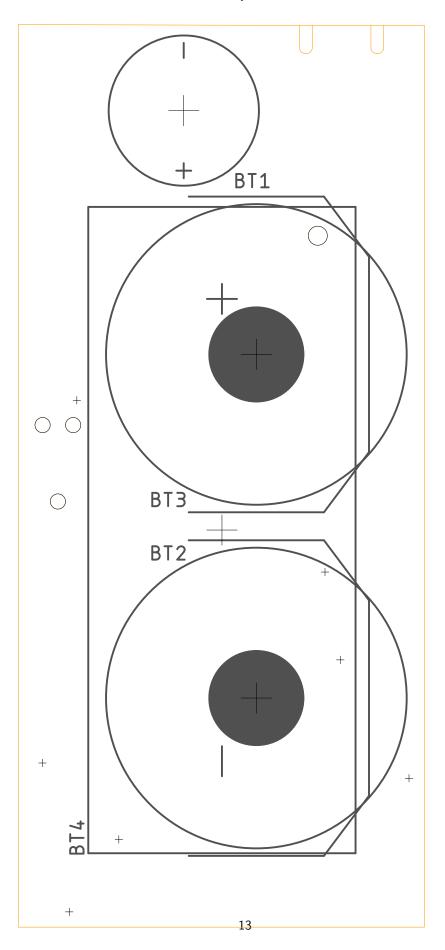


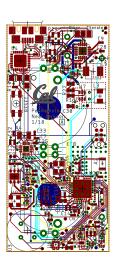


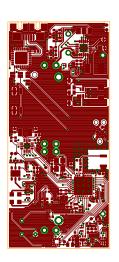


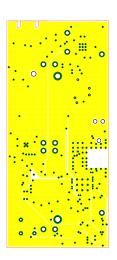


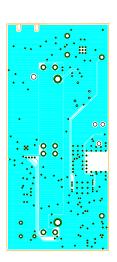


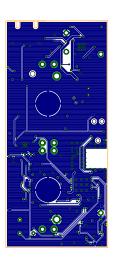












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Qty Value	Device
9 0.1uF	CAPACITOR0402_CAP
1 0.5pF	CAPACITOR0402_CAP
1 0.8pF	CAPACITOR0402_CAP
5 100M	RESISTOR0402_RES
1100pF	CAPACITOR0402_CAP
7 10k	RESISTOR0402_RES
2 10nF	CAPACITOR0402_CAP
3 10uF	CAPACITOR0603_CAP
1 10uH	INDUCTOR0603
4 12pF	CAPACITOR0402_CAP
1 15nH	INDUCTOR0402
5 1uF	CAPACITOR0402_CAP
1 1uH	INDUCTORIHL
1 22uH	INDUCTOR74437324220
1 3.3nH	INDUCTOR0402
1 3.9M	RESISTOR0402_RES
1 32.768kHz	ABS05-32.768KHZ-9-T
1 32MHz	7V-32.000MAHV-T
1 33M	RESISTOR0603_RES
3 4.7uF	CAPACITOR0402_CAP
3 470	RESISTOR0402_RES
1 47nF	CAPACITOR0402_CAP
1 47pF	CAPACITOR0402_CAP
1 6.04k	RESISTOR0402_RES
16.2M	RESISTOR0402_RES
16.8M	RESISTOR0402_RES
1 80.6k	RESISTOR0603_RES
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
5 DNP	-
	RESISTOR0402_RES EKMB1101111
1 EKMB1101111	
1 EVQP2	EVQP2
1 FT232RQ	FT232RQ
1 ISL29125	ISL29125
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 1 SML-LX0404SIUPGUSB 1 SOLARCELLHOLES SI7021-A20-GM1 SML-LX0404SIUPGUSB SOLARCELLHOLES

Package 0402_CAP 0402_CAP 0402_CAP 0402_RES 0402_CAP 0402_RES 0402_CAP 0603_CAP 0603_CAP 0402_CAP 0402 CAP 0402 CAP IHL-1212BZ-11 74437324220 0402_CAP 0402_RES ABS05 TXC-7V 0603-RES 0402_CAP 0402_RES 0402_CAP 0402_CAP 0402_RES 0402 RES 0402_RES 0603-RES 0402_RES QFN-16-3MM 2-SMD ANT3216A063R2400A BAT-HLD-002-THM BH123A S-PVQFN-N20-RGR 0402_CAP 0402_RES AMN2 EVQP2 QFN32 ODFN-6-1.5MMX1.6MM 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 SOLAR_HOLES

```
Parts
C12, C13, C14, C15, C16, C17, C18, C19, C20
C1
C2
R23, R24, R25, R26, R27
R6, R7, R8, R9, R10, R11, R12
C9, C10
C29, C30, C31
L4
C3, C4, C5, C6
L2
C21, C22, C23, C24, C25
L3
L5
L1
R14
Х3
X1
R22
C26, C27, C28
R1, R2, R3
C11
C7
R4
R17
R18
R13
R21
U1
X4
Α2
BT2, BT3
BT4
U2
C32, C33
R5, R15, R16, R19, R20
U3
S1
U4
U5
U6
BT1
U7
U8
J5
U9
U10
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10
```

U11 D2 D1

Description SMD Capacitor SMD Capacitor SMD Capacitor

Resistor

Resistor

Resistor

SMD Capacitor

SMD Capacitor SMD Capacitor

SMD Capacitor

SMD Capacitor

32.768kHz Crystal

low power pressure sensor

20 V 500mA, dual P-channel Trench MOSFET

A very specific inductor

A very specific inductor

A very specific inductor A very specific inductor A very specific inductor

TXC CRYSTAL SMD Resistor **SMD Capacitor** Resistor **SMD Capacitor SMD Capacitor** Resistor Resistor Resistor Resistor 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 low power i2c color sensor 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**

ultra-low power 2.4 GHz wireless system on chip (SoC) integrating a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, an ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) integrating a multiprotocol 2.4 GHz transceiver, and ARM® Cortex®-March 1981 (SoC) (SoC)

IC TEMP SENSOR RH 2% DFN 1mm^2 RGB LED Generic solar cell

DIGIKEY 490-6328-1-ND 490-6264-1-ND 490-6269-1-ND 541-100MAHCT-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 490-7195-1-ND	MANUFACTURER	MF	MOUSER
541-1319-1-ND 732-3340-1-ND 535-10426-1-ND YAG3301CT-ND	Vishay Dale		
535-11897-1-ND	Abracon		
887-2568-1-ND HMC0603JT33M0CT-ND	TXC CORPORATION		
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 YAG3322CT-ND			
535-11936-1-ND	Abracon		
535-9543-1-ND	ABRACON		
311-1542-1-ND	YAGEO		
BAT-HLD-001-THM-ND			712-BAT-HLD-001-THM
BH123A-ND	MPD		
296-37078-1-ND	TI		
YAG3306CT-ND			
255-3065-ND	PANASONIC		
P11084SCT-ND			
ISL29125IROZ-T7ACT-ND	INTERSIL		
1022012011(02 117(01 140	STMicroelectronics		511-LIS2DW12TR
MAX17222ELT+TCT-ND	MAXIM INTEGRATED		
MAX44009EDT+TCT-ND	MAXIM		700 7VC0D D 5000
H125274CT-ND	TE CONNECTIVITY		798-ZX62R-B-5P30
223-1199-1-ND 1490-1071-1-ND	TE CONNECTIVITY NORIDIC SEMICONDUCTOR		
1727-2601-1-ND	NEXPERIA		
	,,, .		

336-3141-ND 634-SI7021-A20-GM1 67-2125-1-ND Lumex Opto

MPN NEWARK OC_FARNELL OC_NEWARK Notes

GRM155R71C104KA88J

GRM1555C1HR50WA01D

GRM1555C1HR80BA01D

HMC0402JT100M

GRM1555C1H101JA01D

RC0402JR-0710KL Do not populate R6 & R7

GRM155R71H103KA88D

GRM188R60J106ME47D

LQM18FN100M00D

GRM1555C1H120GA01D

HK100515NJ-T

GRM155R70G105KA12D

IHLP1212BZER1R0M11

74437324220

AISC-0402-3N3J-T

RC0402JR-073M9L

ABS05-32.768KHZ-9-T

7M-32.000MAHV-T

HMC0603JT33M0

C1005X5R0J475K050BC

RC0402JR-07470RL

C1005X7R1C473K050BC

GRM1555C1H470JA01D

RC0402FR-076K04L

RC0402JR-076M2L

RC0402JR-076M8L

RC0603FR-0780K6L

RC0402JR-079M1L

AB1815-T3

ABS07-32.768KHZ-7-T

ANT3216A063R2400A

BAT-HLD-001-THM

BQ25505RGRR

BH123A

Do not populate

Do not populate

Do not populate

Do not populate

EKMB1101111

EVQ-P2K02Q

FT232RQ 1146033 91K9919

ISL29125IROZ-T7A Will Consign (Part is out of s

LIS2DW12TR

Do not populate

MAX17222ELT+T

MAX44009EDT+T

ZX62R-B-5P(30) 84Y6712

MS563702BA03-50

NRF52840 Will Consign (Part is not yet

PMDXB950UPELZ

SI7021-A20-GM1 SML-LX0404SIUPGUSB

Do not populate

stock everywhere)

in production)