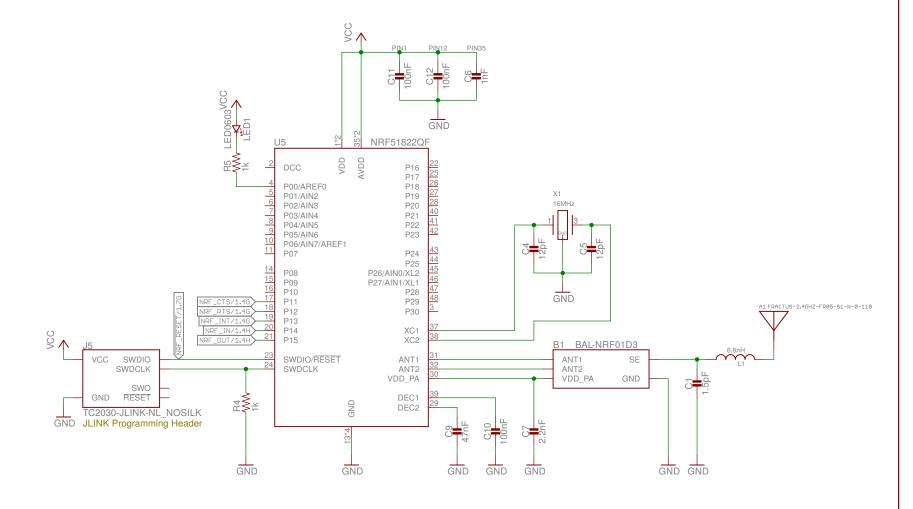


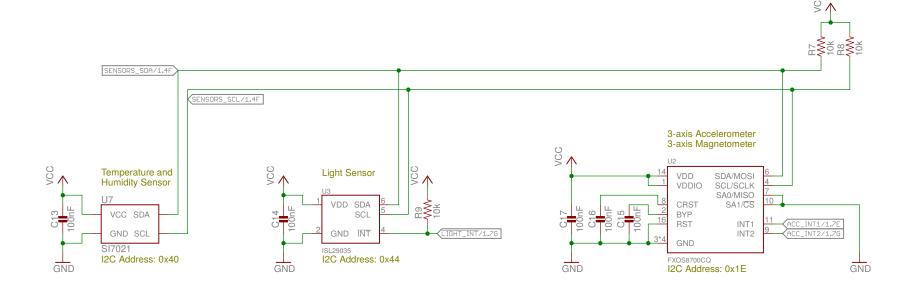
BLE Radio



M Hail	REV: B
Author: Branden Ghena	
Date: 3/13/17 6:57 PM Sheet: 2	2/4

)

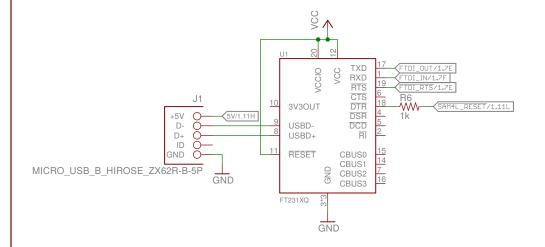
Sensors

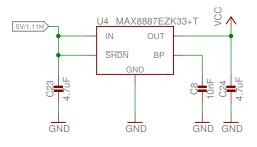


M Hail	REV: B
Author: Branden Ghena	
Date: 3/13/17 6:57 PM	Sheet: 3/4

2

Power and USB

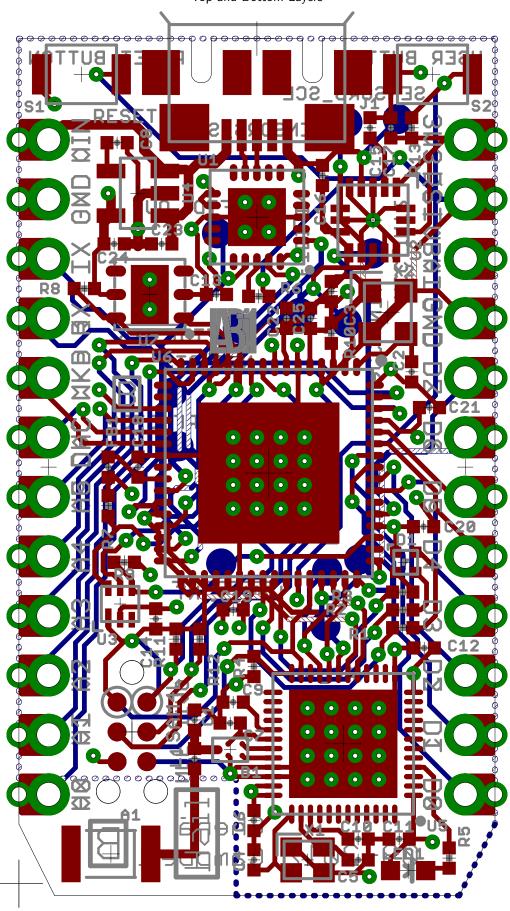


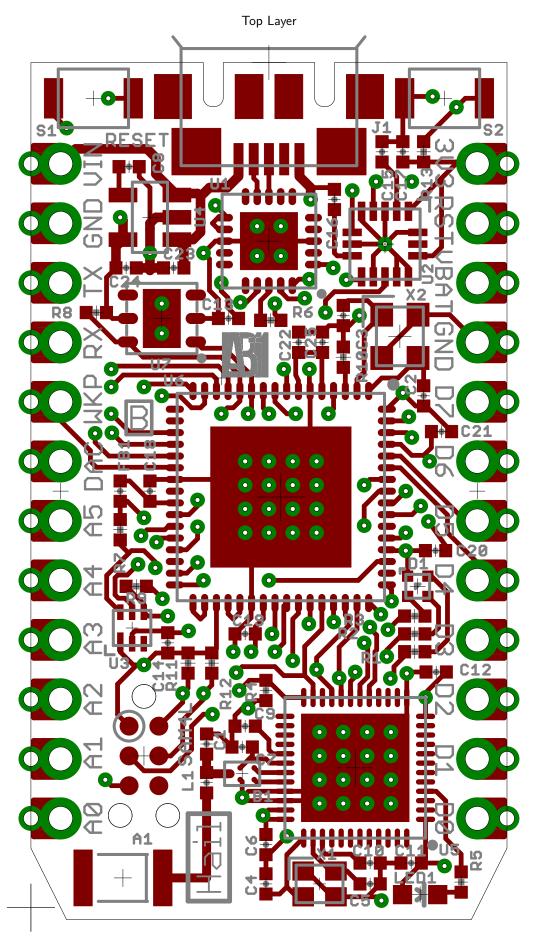


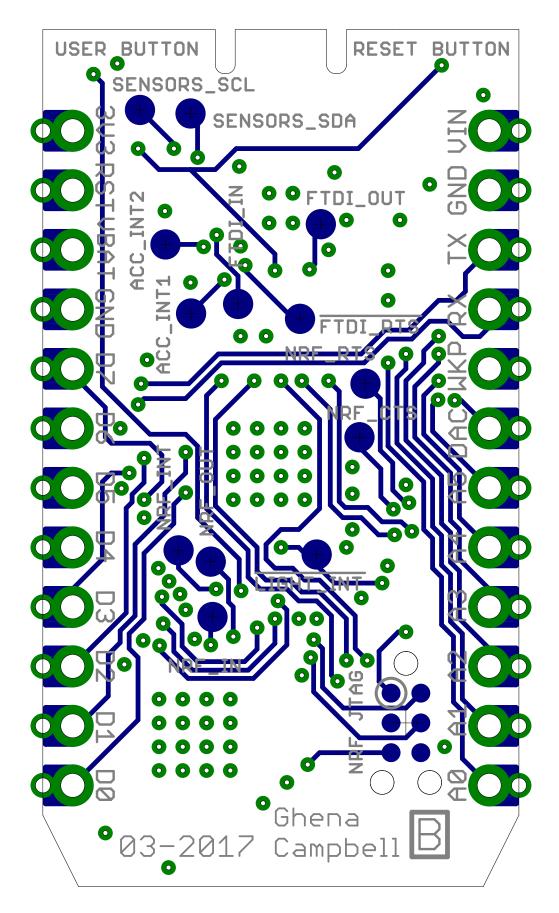
				REV:
	Hail			В
A		 0.1	<u>'</u>	

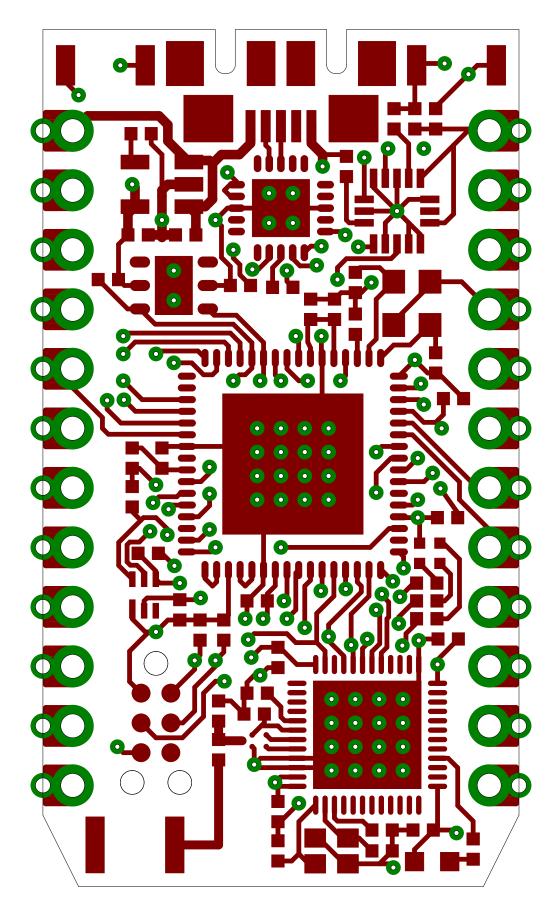
Author: Branden Ghena

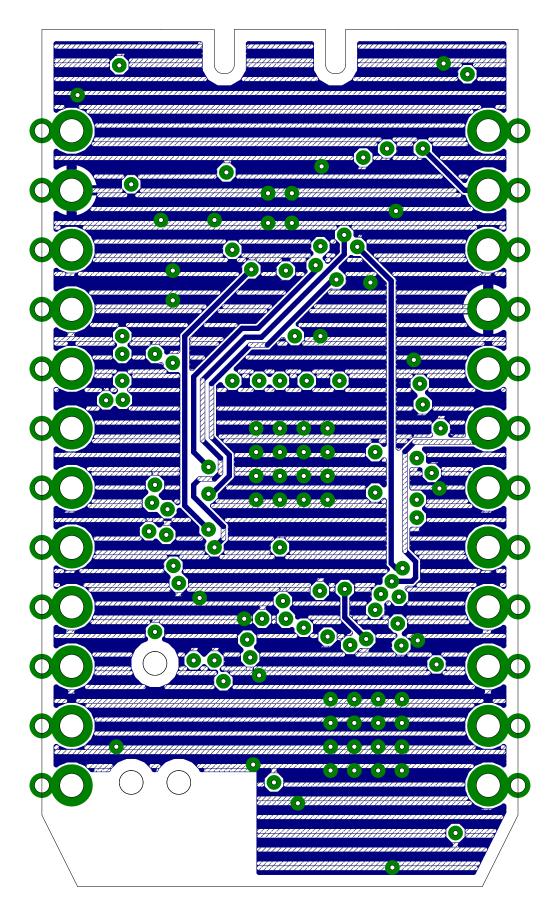
Date: 3/13/17 6:57 PM Sheet: 4/4

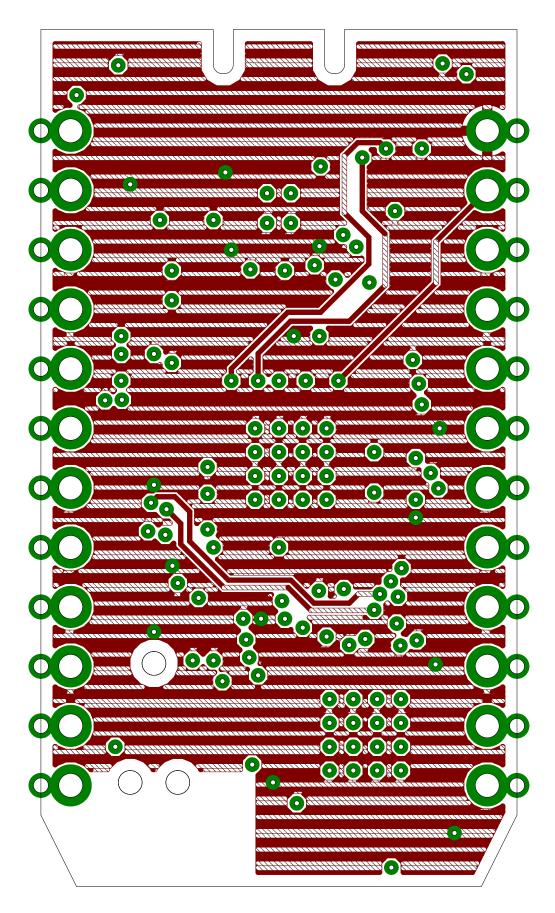


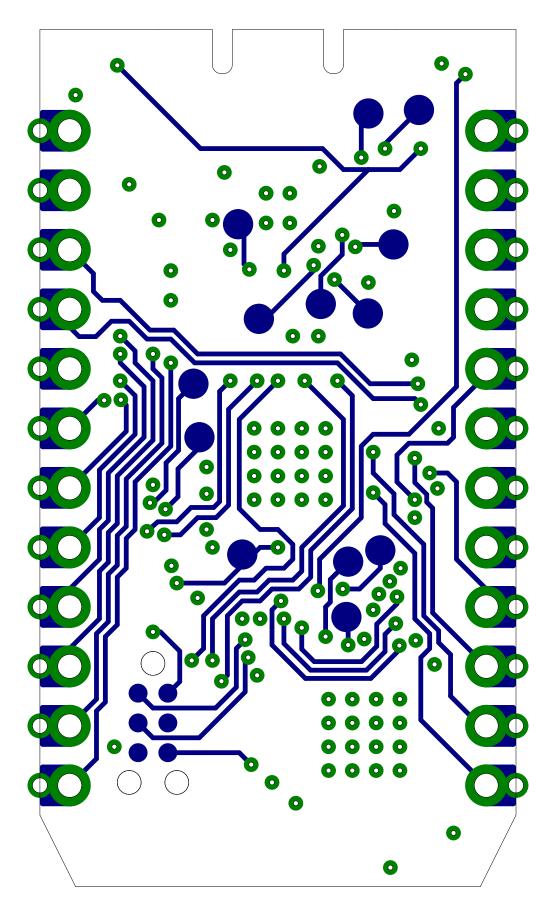


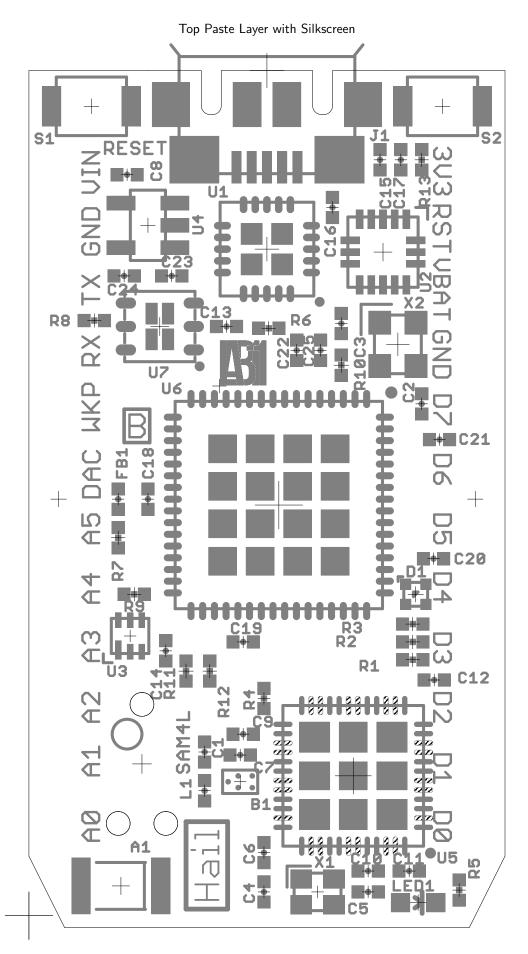


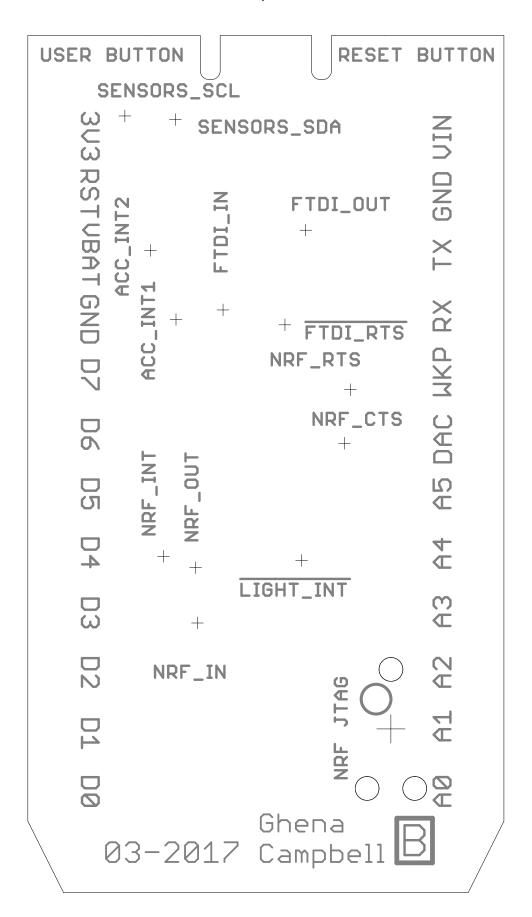


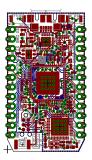


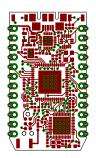






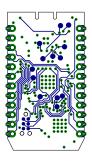












Qty Value Device 1 FRACTUS-2.4GHZ-FR05-S1-N-0-110 FRACTUS-2.4GHZ-FR05-S1-N-0-110 1 BAL-NRF01D3 BAL-NRF01D3 CAPACITOR0402_CAP 11.5pF 28pF CAPACITOR0402_CAP 2 12pF CAPACITOR0402 CAP 11nF CAPACITOR0402_CAP 12.2nF CAPACITOR0402_CAP 1 10nF CAPACITOR0402_CAP 147nF CAPACITOR0402_CAP 13 100nF CAPACITOR0402 CAP 34.7uF CAPACITOR0402_CAP 1 SML-LX0404SIUPGUSB SML-LX0404SIUPGUSB FERRITE BEAD0402 1 1.5k 1 MICRO_USB_B_HIROSE_ZX62R-B-{MICRO_USB_B_HIROSE_ZX62R-B-{ M12PTH-CST-L 1 M12PTH-CST-L 1 M12PTH-CST-R M12PTH-CST-R 2 TC2030-JLINK-NL_NOSILK TC2030-JLINK-NL_NOSILK INDUCTOR0402 16.8nH 1 LED0603 LED0603 6 1k RESISTOR0402 RES 4 10k RESISTOR0402_RES 3 100k RESISTOR0402 RES 2 B3U-1000P B3U-1000P **TPB1,27** 13 TPB1,27 1 FT231XQ FT231XQ 1 FXOS8700CQ FXOS8700CQ 1 ISL29035 ISL29035 1 MAX8887EZK33+T MAX8887EZK33+T 1 NRF51822QF NRF51822QF 1 SAM4LC8BA SAM4LC8BA 1 SI7021 SI7021 TXC-8Y 116MHz

116MHz

FH1600015

Package

FRACTUS-ANTENNA-FR05-S1-N-0-110

BAL-NRF01D3

0402_CAP

0402_CAP

0402_CAP

0402_CAP

0402_CAP

0402_CAP

0402_CAP

0402_CAP

0402_CAP

1MM_SQ_4PAD

0402 CAP

USB_MICRO_B-HIROSE-ZX62R-B-5P

1X12-CASTELLATED

1X12-CASTELLATED

TC2030-IDC-NL_NOSILK

0402_CAP

LED-0603

0402_RES

0402_RES

0402_RES

B3U-1000P

B1,27

QFN-20-4MM

QFN-16-3MM

ODFN-6-1.5MMX1.6MM

SOT-23-5

QFN-48-6MM

QFN-64-9MM

DFN-6/3MM

TXC-8Y

FHXXX

```
Parts
Α1
В1
C1
C2, C3
C4, C5
C6
C7
C8
C9
C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22
C23, C24, C25
D1
FB1
J1
J2
J3
J4, J5
L1
LED1
R1, R2, R3, R4, R5, R6
R7, R8, R9, R10
R11, R12, R13
S1, S2
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13
U1
U2
U3
U4
U5
U6
U7
X1
X2
```

Description	DIGIKEY
Fractus Micro Reach Xtend	
50 ohm nominal input / conjugate match balun to nRF51422-QFAA	., 497-13637-1-ND
0402 Capacitor	490-6212-1-ND
0402 Capacitor	490-8230-1-ND
0402 Capacitor	490-6197-1-ND
0402 Capacitor	490-1303-1-ND
0402 Capacitor	490-5419-1-ND
0402 Capacitor	490-7763-1-ND
0402 Capacitor	445-1264-1-ND
0402 Capacitor	490-10777-1-ND
0402 Capacitor	490-13252-1-ND
1mm^2 RGB LED	67-2125-1-ND
	1276-6395-1-ND
USB Micro B Connector	H125274CT-ND
Header 12	S1011E-12-ND
Header 12	S1011E-12-ND
A very specific inductor	490-6840-1-ND
LED	160-1837-6-ND
Resistor	1276-3430-1-ND
Resistor	1276-3431-1-ND
Resistor	1276-3432-1-ND
Switch	SW1020CT-ND
Test pad	
USB Bridge, USB to UART USB 2.0 UART Interface	768-1128-1-ND
Accelerometer, Magnetometer, 3 Axis Sensor, I2C/SPI	FXOS8700CQR1CT-ND
Optical Sensor Ambient 550nm I2C	ISL29035IROZ-T7CT-ND
IC REG LDO 3.3V 0.3A TSOT23-5	MAX8887EZK33+TCT-NE
Multiprotocol Bluetooth 4.0 low energy/2.4 GHz RF SoC	1490-1049-1-ND
SAM4L Microcontroller. 64QFN Package. 512 Flash.	ATSAM4LC8BA-MURCT-I
IC TEMP SENSOR RH 2% DFN	336-3141-ND
2mmx1.6mm SMD Crystal	887-2003-1-ND
Pericom Type FH 16 MHz 2.5 x 2.0 mm	FH1600015CT-ND

MOUSER MPN

NEWARK RICHARDSON_RFPD TP_SIGNAL_NAME FR05-S1-N-0110B

511-BAL-NRF01D3

FT231XQ-R FXOS8700CQR1 ISL29035IROZ-T7

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ND