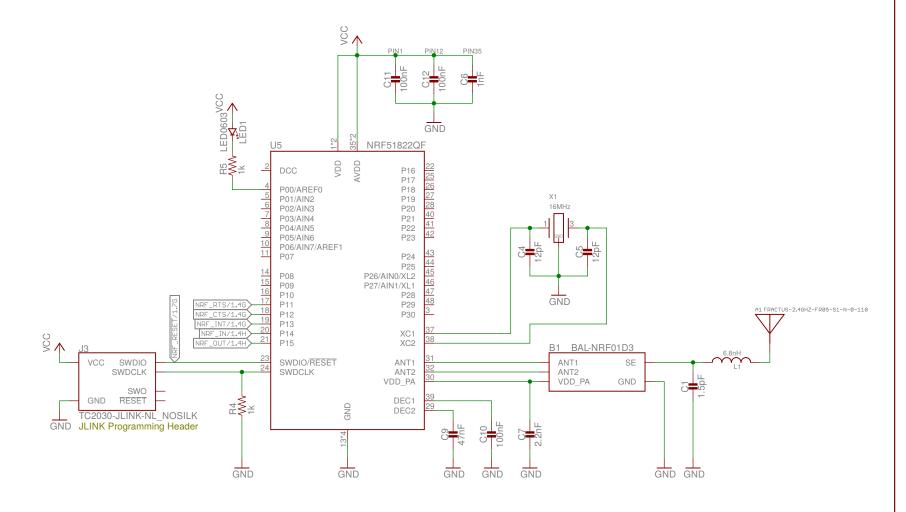


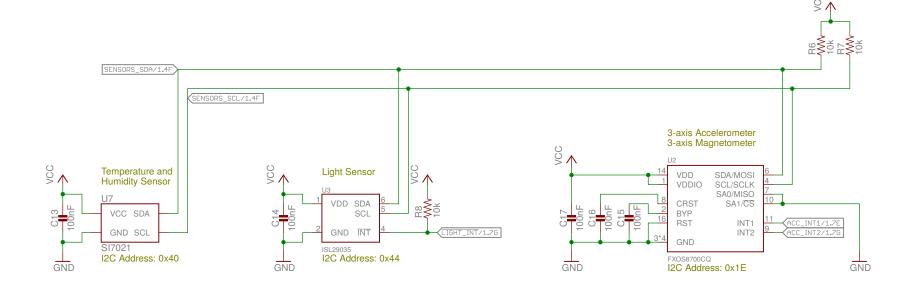
BLE Radio



M Hail	REV:
Author: Branden Ghena	
Date: 12/3/16 3:40 PM Sheet: 1	2/4

)

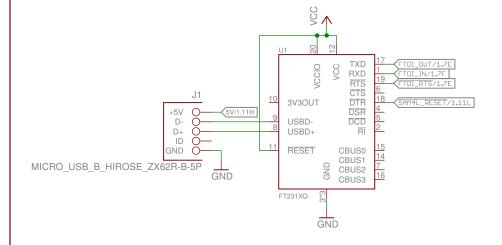
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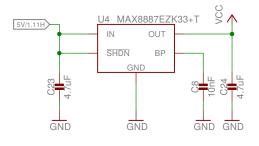


M Hail		REV: A
Author: Branden Ghena		
Date: 12/3/16 3:40 PM	Sheet: 3	/4

2

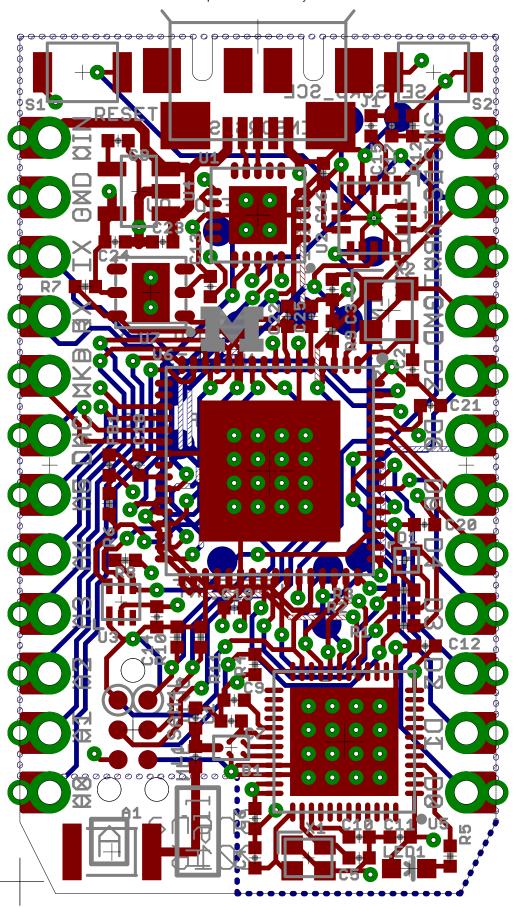
Power and USB

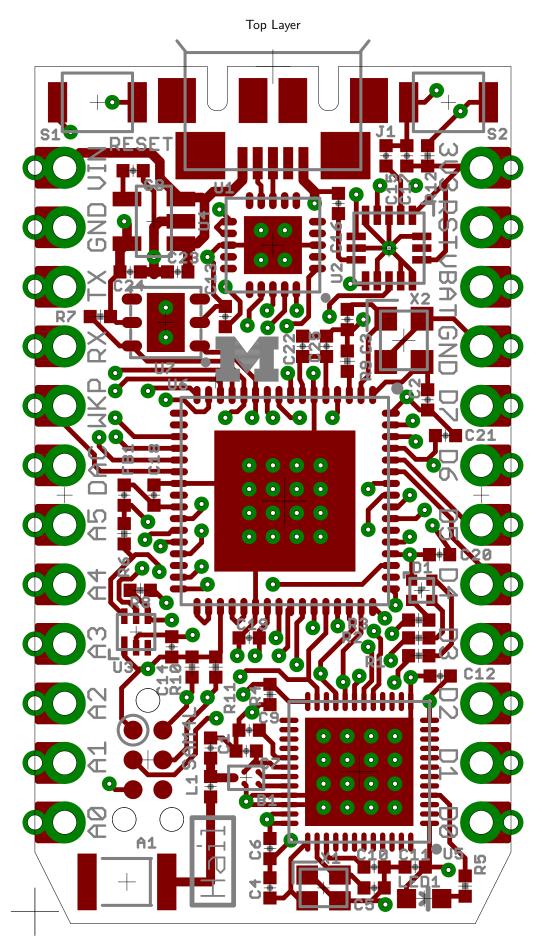


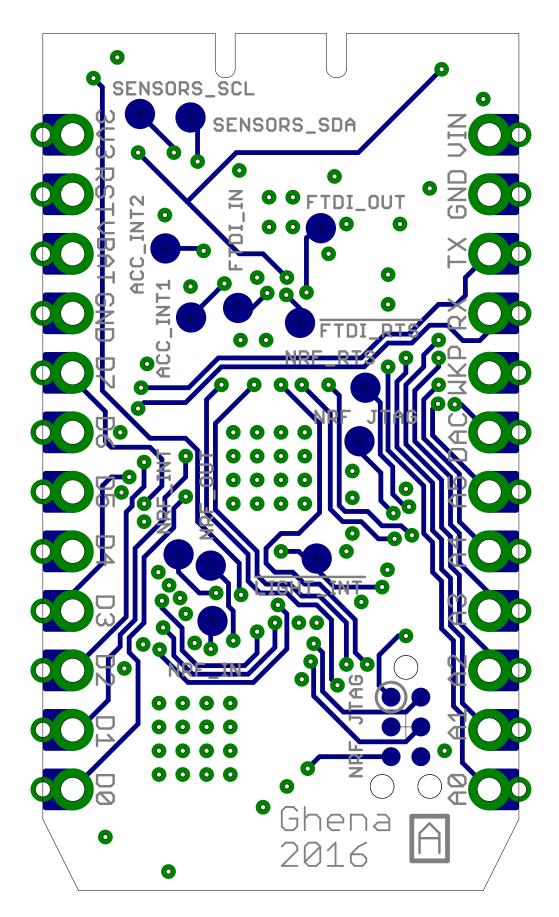


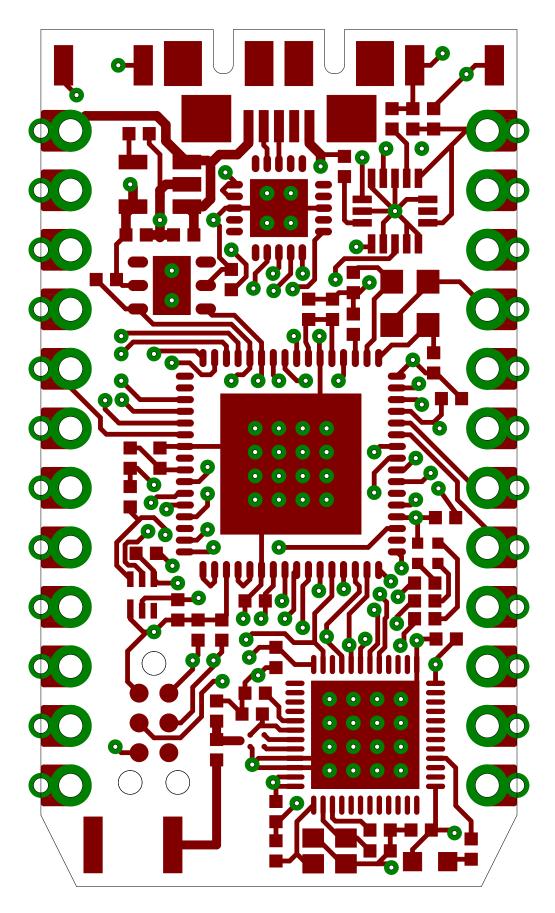
	REV:
M Hail	A
Author: Branden Ghena	

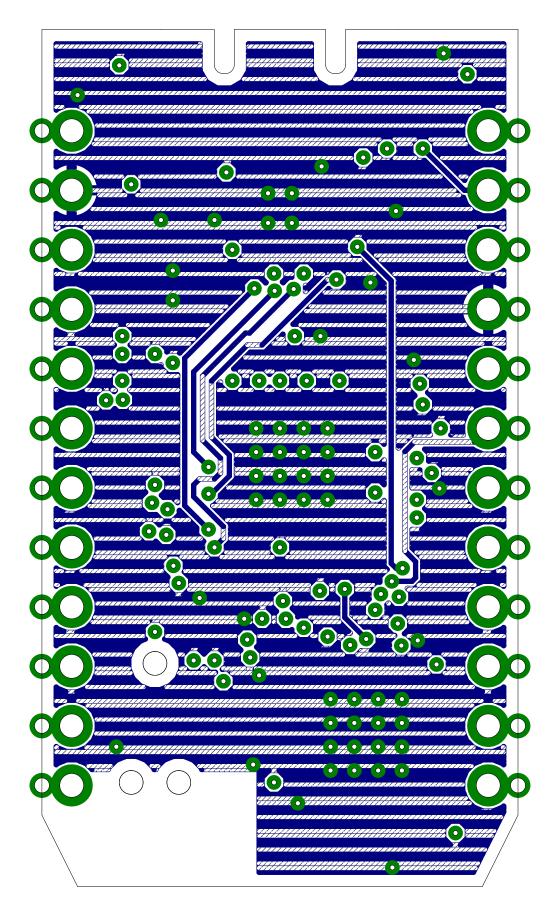
Date: 12/3/16 3:40 PM Sheet: 4/4

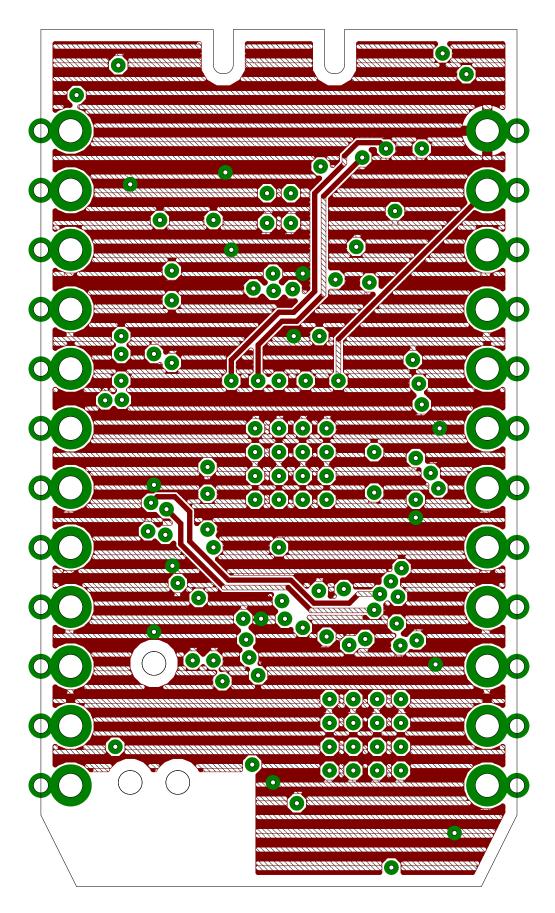


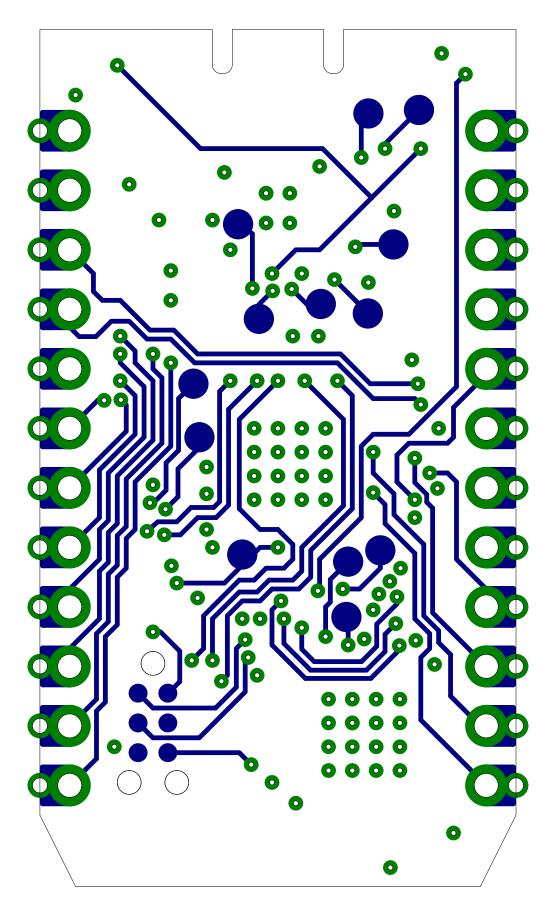


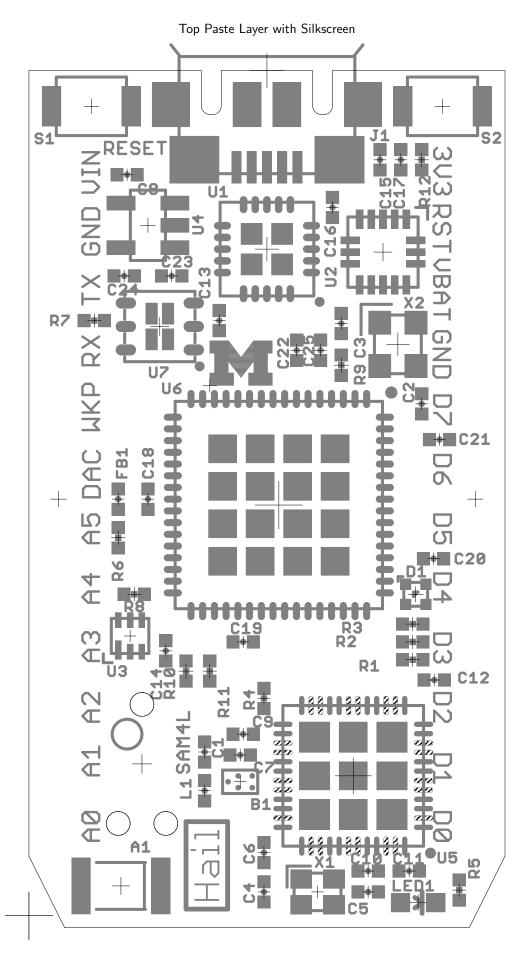


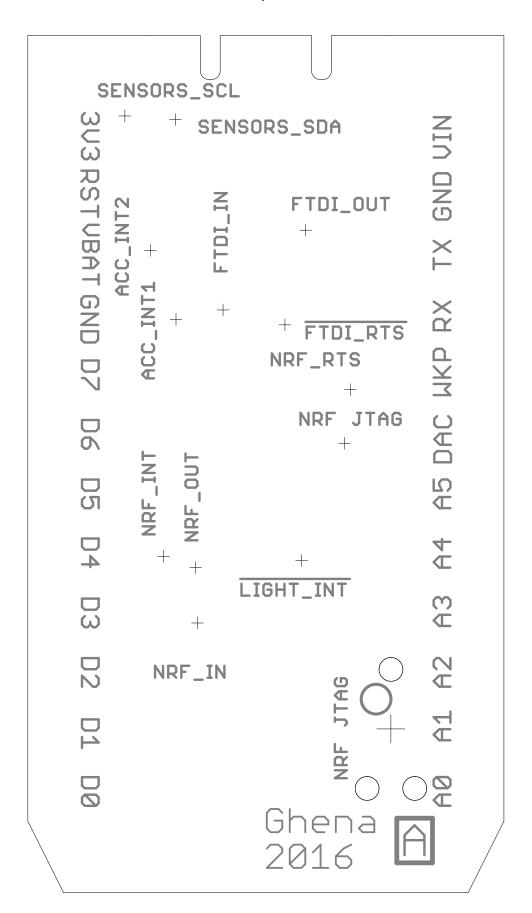


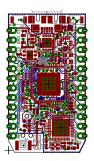


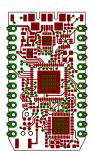






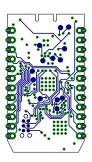












Qty Value Device 1 FRACTUS-2.4GHZ-FR05-S1-N-0-110 FRACTUS-2.4GHZ-FR05-S1-N-0-110 1 BAL-NRF01D3 BAL-NRF01D3 CAPACITOR0402_CAP 11.5pF 28pF CAPACITOR0402 CAP 212pF CAPACITOR0402 CAP CAPACITOR0402_CAP 11nF 12.2nF CAPACITOR0402_CAP 110nF CAPACITOR0402_CAP 147nF CAPACITOR0402_CAP 13 100nF CAPACITOR0402 CAP CAPACITOR0402 CAP 34.7uF 1 SML-LX0404SIUPGUSB SML-LX0404SIUPGUSB FERRITE BEAD0402 11.5k 1 MICRO_USB_B_HIROSE_ZX62R-B-5MICRO_USB_B_HIROSE_ZX62R-B-5 TC2030-JLINK-NL_NOSILK 2 TC2030-JLINK-NL_NOSILK 1 M12PTH-CST-L M12PTH-CST-L 1 M12PTH-CST-R M12PTH-CST-R 16.8nH INDUCTOR0402 1 LED0603 LED0603 51k RESISTOR0402 RES 4 10k RESISTOR0402_RES 3 100k RESISTOR0402 RES 2 B3U-1000P B3U-1000P 1 FT231XQ FT231XQ 1FXOS8700CQ FXOS8700CQ 1 ISL29035 ISL29035 1 MAX8887EZK33+T MAX8887EZK33+T 1 NRF51822QF NRF51822QF 1 SAM4LC8BA SAM4LC8BA SI7021 1 SI7021 TXC-8Y 116MHz

FH1600015

116MHz

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

TC2030-IDC-NL_NOSILK

1X12-CASTELLATED

1X12-CASTELLATED

0402_CAP

LED-0603

0402_RES

0402_RES

0402_RES

B3U-1000P

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
JP3
JP4
L1
LED1
R1, R2, R3, R4, R5
R6, R7, R8, R9
R10, R11, R12
S1, S2
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
0402 Ferrite Bead	490-5216-1-ND
USB Micro B Connector	H125274CT-ND
Header 12	
Header 12	
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
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-ND
Multiprotocol Bluetooth® 4.0 low energy/2.4 GHz RF SoC	1490-1032-1-ND
SAM4L Microcontroller. 64QFN Package. 512 Flash.	ATSAM4LC8BA-MURDKR-ND
IC TEMP SENSOR RH 2% DFN	336-3141-1-ND
2mmx1.6mm SMD Crystal	887-2003-1-ND
Pericom Type FH 16 MHz 2.5 x 2.0 mm	FH1600015CT-ND

RICHARDSON_RFPD FR05-S1-N-0110B