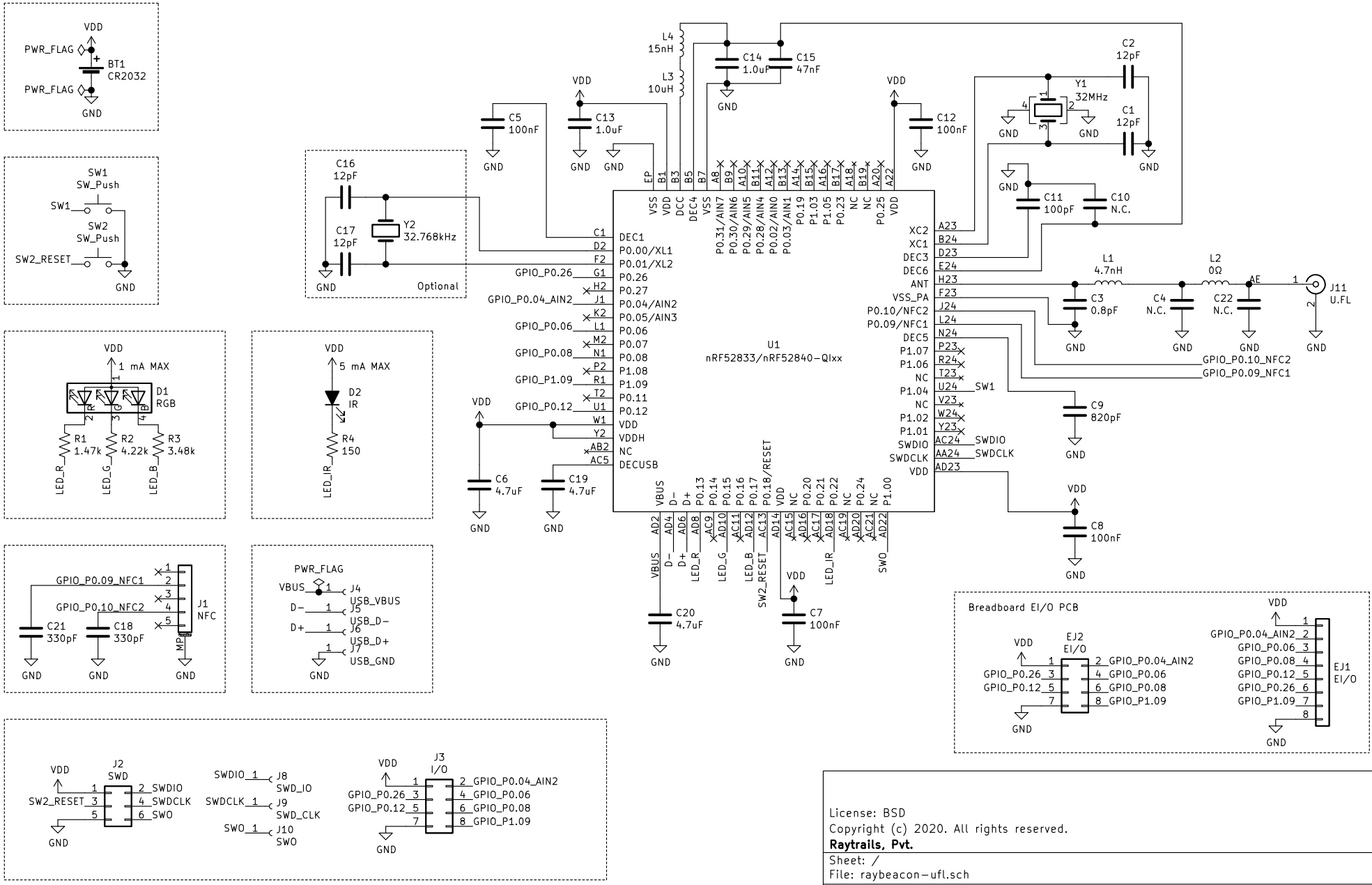
VDD
PWR_FLAG
BT1
CR2032
GND
SW1
SW_Push
SW2
SW2_RESET
1 mA MAX
D1
RGB
R1
1.47k
R2
4.22k
R3
3.48k
LED_R
LED_G
LED_B
5 mA MAX
D2
IR
R4
150
LED_IR
GPIO_P0.09_NFC1
GPIO_P0.10_NFC2
J1
NFC
C21
330pF
C18
330pF
MP
PWR_FLAG
VBUS
D−
D+
J4
USB_VBUS
J5
USB_D−
J6
USB_D+
J7
USB_GND
J2
SWD
SWDIO
SWDCLK
SWO
J8
SWD_IO
J9
SWD_CLK
J10
SWO
J3
I/O
GPIO_P0.04_AIN2
GPIO_P0.06
GPIO_P0.08
GPIO_P0.12
GPIO_P0.26
GPIO_P1.09
C16
12pF
C17
12pF
Y2
32.768kHz
Optional
C5
100nF
C13
1.0uF
L4
15nH
L3
10uH
C14
1.0uF
C15
47nF
C12
100nF
Y1
32MHz
C2
12pF
C1
12pF
C11
100pF
C10
N.C.
L1
4.7nH
L2
0Ω
C3
0.8pF
C4
N.C.
C22
N.C.
J11
U.FL
C9
820pF
C6
4.7uF
C19
4.7uF
C20
4.7uF
C7
100nF
C8
100nF
U1
nRF52833/nRF52840-QIxx
DEC1
P0.00/XL1
P0.01/XL2
P0.26
P0.27
P0.04/AIN2
P0.05/AIN3
P0.06
P0.07
P0.08
P1.08
P1.09
P0.11
P0.12
VDD
VDDH
NC
DECUSB
XC2
XC1
DEC3
DEC6
ANT
VSS_PA
P0.10/NFC2
P0.09/NFC1
DEC5
P1.07
P1.06
NC
P1.04
NC
P1.02
P1.01
SWDIO
SWDCLK
VDD
SW1
Breadboard EI/O PCB
EJ2
EI/O
EJ1
EI/O
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Raytrails, Pvt.
Sheet: /
File: raybeacon-ufl.sch
Title: rayBeacon Board, U.FL
Size: A4
Date:
Rev: 1.5-U
KiCad E.D.A. eeschema (5.1.6-0)
Id: 1/1