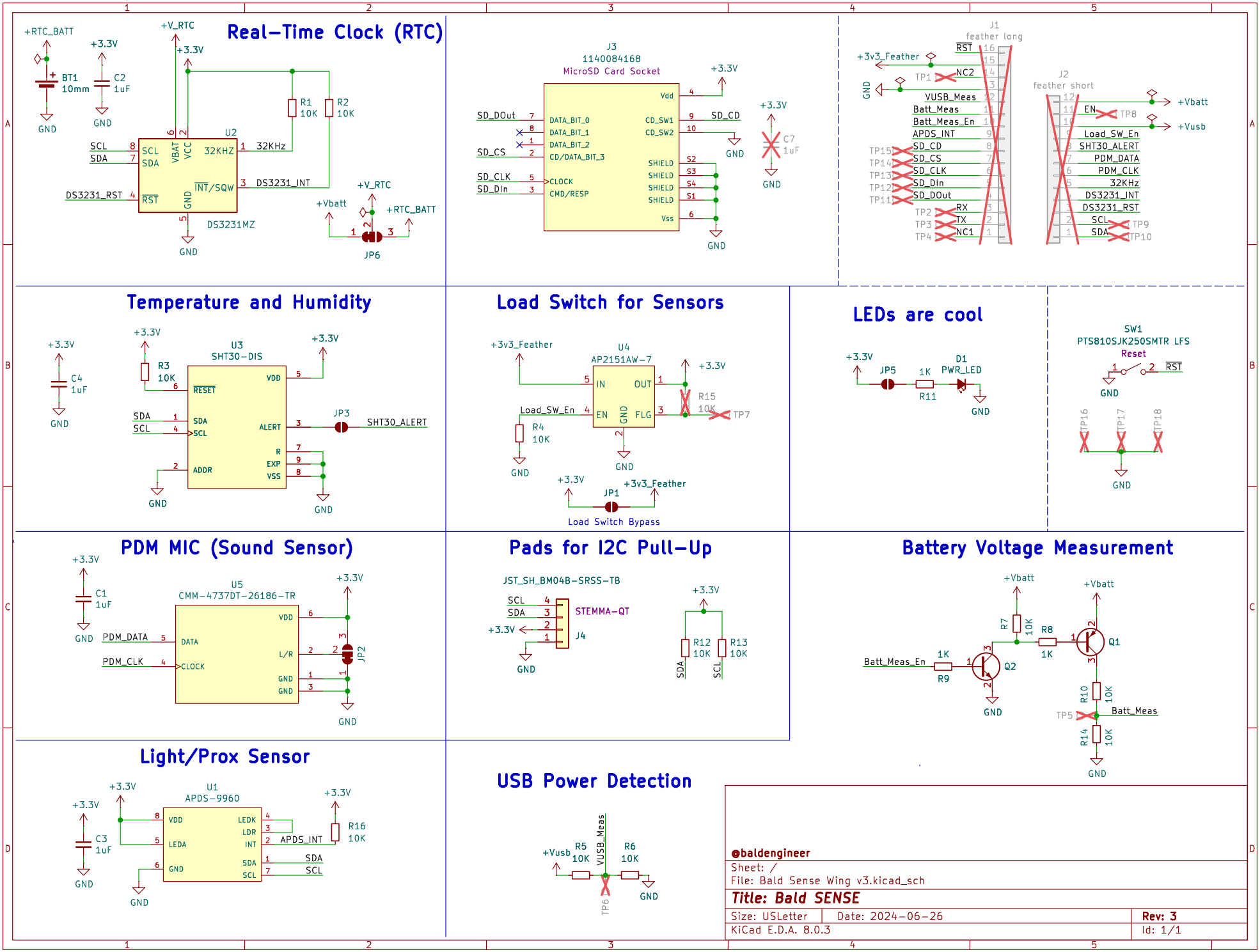
Real-Time Clock (RTC)
+RTC_BATT
BT1
10mm
GND
+3.3V
C2
1uF
+V_RTC
U2
DS3231MZ
SCL
SDA
VBAT
VCC
32KHZ
32KHz
R1
10K
R2
10K
DS3231_INT
INT/SQW
DS3231_RST
RST
+Vbatt
JP6
+RTC_BATT
J3
1140084168
MicroSD Card Socket
SD_DOut
SD_CS
SD_CLK
SD_DIn
DATA_BIT_0
DATA_BIT_1
DATA_BIT_2
CD/DATA_BIT_3
CLOCK
CMD/RESP
Vdd
CD_SW1
CD_SW2
SHIELD
Vss
SD_CD
C7
1uF
J1
feather long
+3v3_Feather
NC2
VUSB_Meas
Batt_Meas
Batt_Meas_En
APDS_INT
SD_CD
SD_CS
SD_CLK
SD_DIn
SD_DOut
RX
TX
NC1
J2
feather short
EN
TP8
+Vbatt
+Vusb
Load_SW_En
SHT30_ALERT
PDM_DATA
PDM_CLK
32KHz
DS3231_INT
DS3231_RST
SCL
SDA
TP9
TP10
Temperature and Humidity
C4
1uF
R3
10K
U3
SHT30-DIS
RESET
VDD
SDA
SCL
ALERT
ADDR
R
EXP
VSS
JP3
SHT30_ALERT
Load Switch for Sensors
+3v3_Feather
U4
AP2151AW-7
IN
OUT
EN
GND
FLG
Load_SW_En
R4
10K
R15
10K
TP7
JP1
Load Switch Bypass
LEDs are cool
JP5
1K
R11
D1
PWR_LED
SW1
PTS810SJK250SMTR LFS
Reset
RST
TP16
TP17
TP18
PDM MIC (Sound Sensor)
C1
1uF
U5
CMM-4737DT-26186-TR
PDM_DATA
PDM_CLK
DATA
CLOCK
L/R
JP2
Pads for I2C Pull-Up
JST_SH_BM04B-SRSS-TB
STEMMA-QT
J4
R12
10K
R13
10K
Battery Voltage Measurement
R7
10K
R8
1K
Q1
Q2
Batt_Meas_En
R9
R10
10K
TP5
Batt_Meas
R14
10K
Light/Prox Sensor
C3
1uF
U1
APDS-9960
VDD
LEDA
GND
LEDK
LDR
INT
SDA
SCL
APDS_INT
R16
10K
USB Power Detection
+Vusb
R5
10K
VUSB_Meas
R6
10K
TP6
@baldengineer
Sheet: /
File: Bald Sense Wing v3.kicad_sch
Title: Bald SENSE
Size: USLetter
Date: 2024-06-26
Rev: 3
KiCad E.D.A. 8.0.3
Id: 1/1