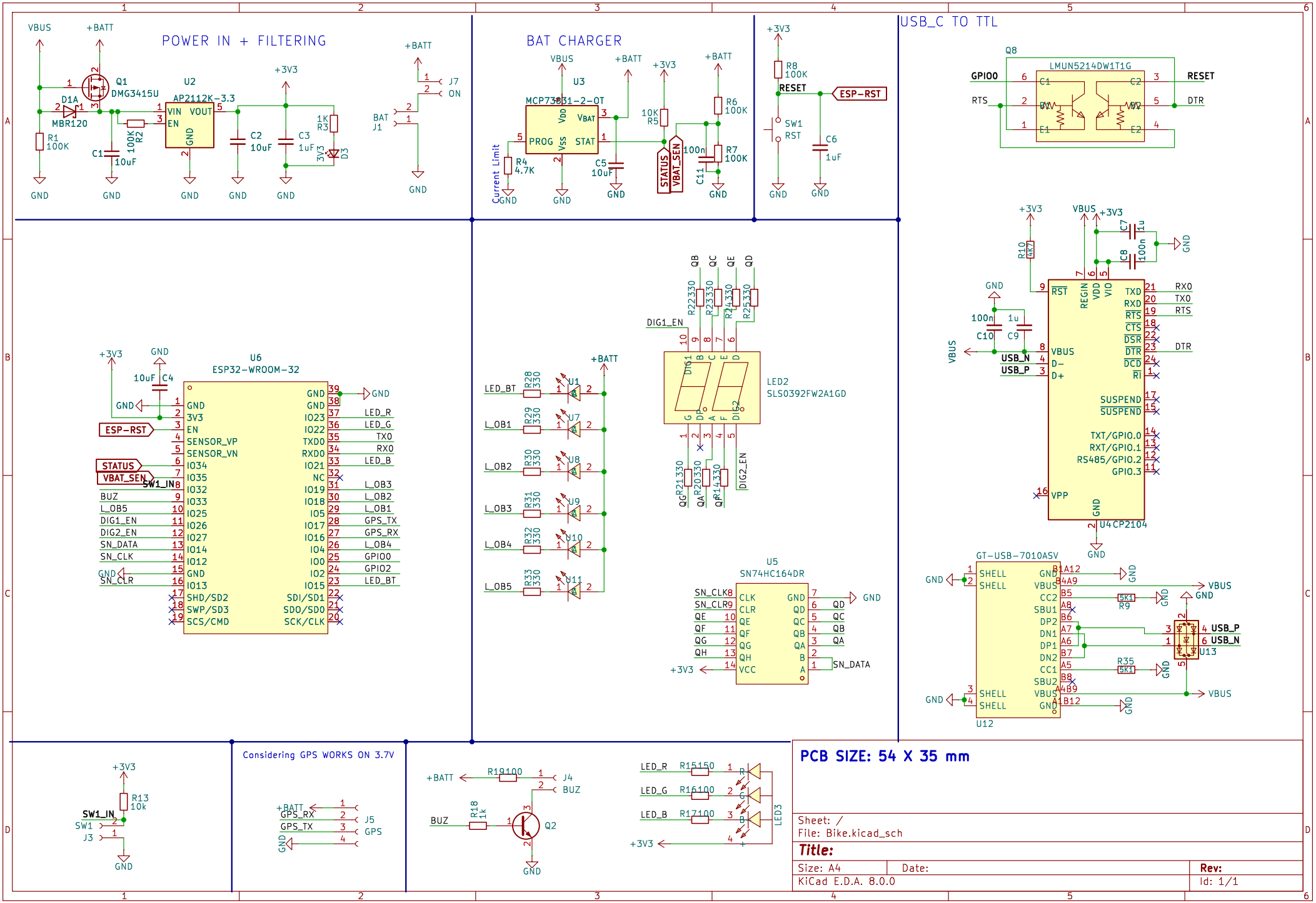
POWER IN + FILTERING
VBUS
+BATT
Q1
DMG3415U
D1A
MBR120
R1
100K
C1
10uF
U2
AP2112K-3.3
VIN
VOUT
EN
GND
R2
100K
C2
10uF
C3
1uF
+3V3
R3
1K
D3
J7
ON
BAT
J1
BAT CHARGER
U3
MCP73831-2-OT
VDD
VBAT
PROG
VSS
STAT
Current Limit
R4
4.7K
C5
10uF
R5
10K
R6
100K
R7
100K
C11
100n
STATUS
VBAT_SEN
R8
100K
RESET
ESP-RST
SW1
RST
C6
1uF
USB_C TO TTL
Q8
LMUN5214DW1T1G
GPIO0
RTS
RESET
DTR
R10
4K7
C7
1u
C8
100n
C10
100n
C9
1u
U4 CP2104
RST
REGIN
VDD
VIO
VBUS
D-
D+
USB_N
USB_P
TXD
RXD
RTS
CTS
DSR
DTR
DCD
RI
SUSPEND
TXT/GPIO.0
RXT/GPIO.1
RS485/GPIO.2
GPIO.3
VPP
RX0
TX0
GT-USB-7010ASV
U12
SHELL
CC2
SBU1
DP2
DN1
DP1
DN2
CC1
SBU2
R9
5K1
R35
5K1
U13
USB_P
USB_N
U6
ESP32-WROOM-32
10uF
C4
ESP-RST
STATUS
VBAT_SEN
SW1_IN
BUZ
L_OB5
DIG1_EN
DIG2_EN
SN_DATA
SN_CLK
SN_CLR
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
IO13
SHD/SD2
SWP/SD3
SCS/CMD
IO23
IO22
TXD0
RXD0
IO21
NC
IO19
IO18
IO5
IO17
IO16
IO4
IO0
IO2
IO15
SDI/SD1
SDO/SD0
SCK/CLK
LED_R
LED_G
TX0
RX0
LED_B
L_OB3
L_OB2
L_OB1
GPS_TX
GPS_RX
L_OB4
GPIO0
GPIO2
LED_BT
R28
330
R29
330
R30
330
R31
330
R32
330
R33
330
U1
U7
U8
U9
U10
U11
LED2
SLS0392FW2A1GD
R22 330
R23 330
R24 330
R25 330
R21 330
R20 330
R14 330
QB
QC
QE
QD
QG
QA
DIG1_EN
DIG2_EN
U5
SN74HC164DR
CLK
CLR
QE
QF
QG
QH
VCC
QD
QC
QB
QA
SN_DATA
SW1_IN
SW1
J3
R13
10k
Considering GPS WORKS ON 3.7V
GPS_RX
GPS_TX
J5
GPS
R19 100
J4
BUZ
R18
1k
Q2
R15 150
R16 100
R17 100
LED_R
LED_G
LED_B
LED3
PCB SIZE: 54 X 35 mm
Sheet: /
File: Bike.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.0
Id: 1/1