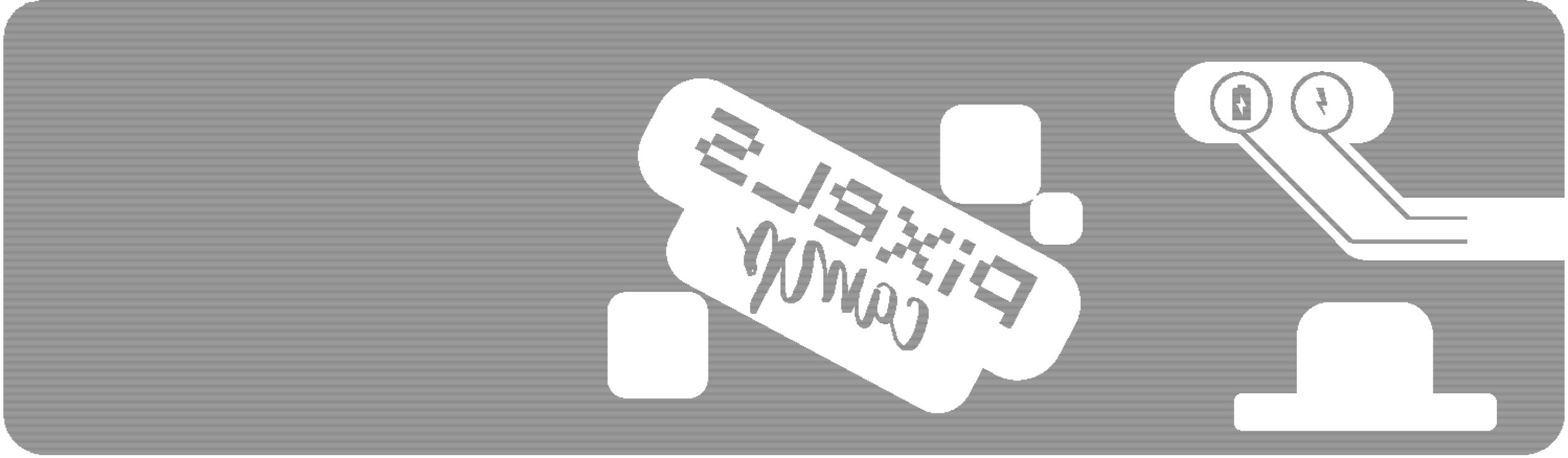
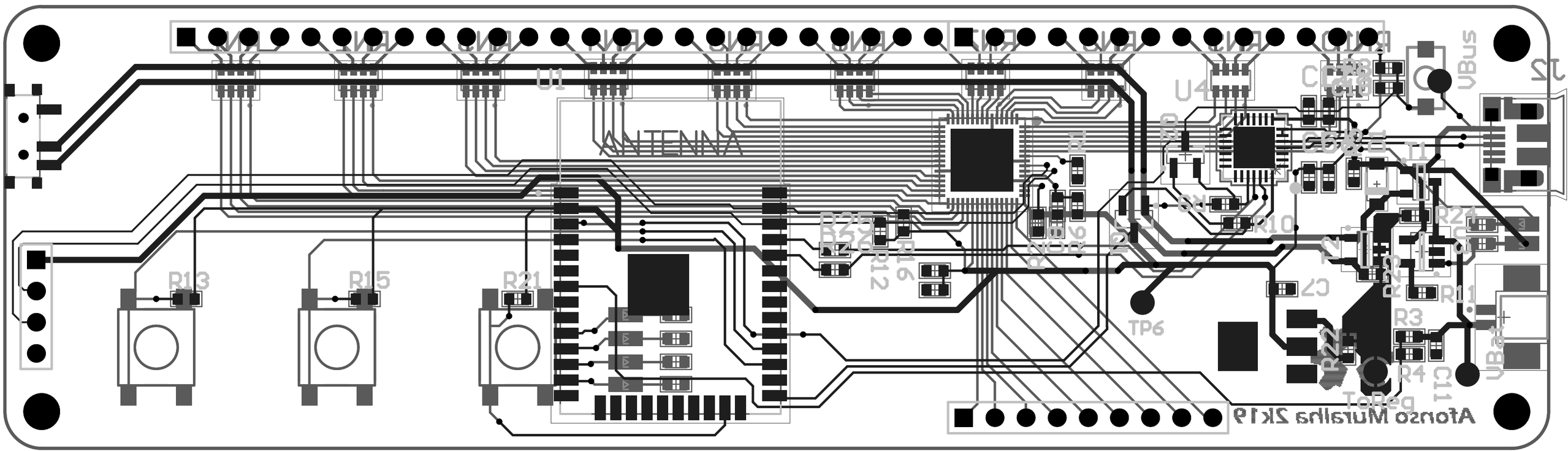
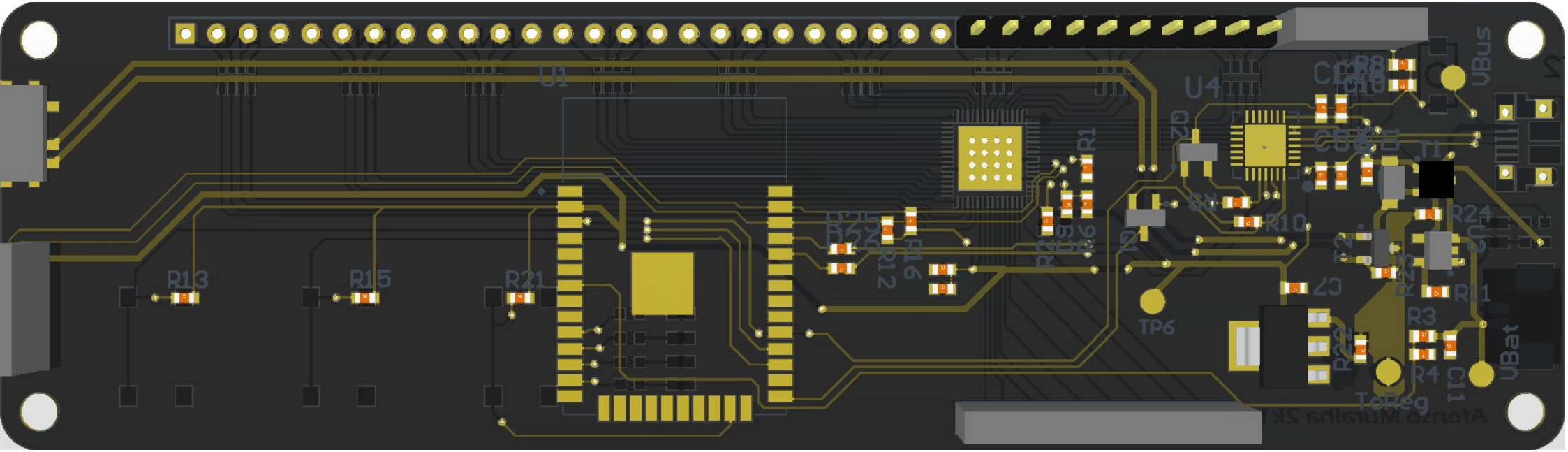
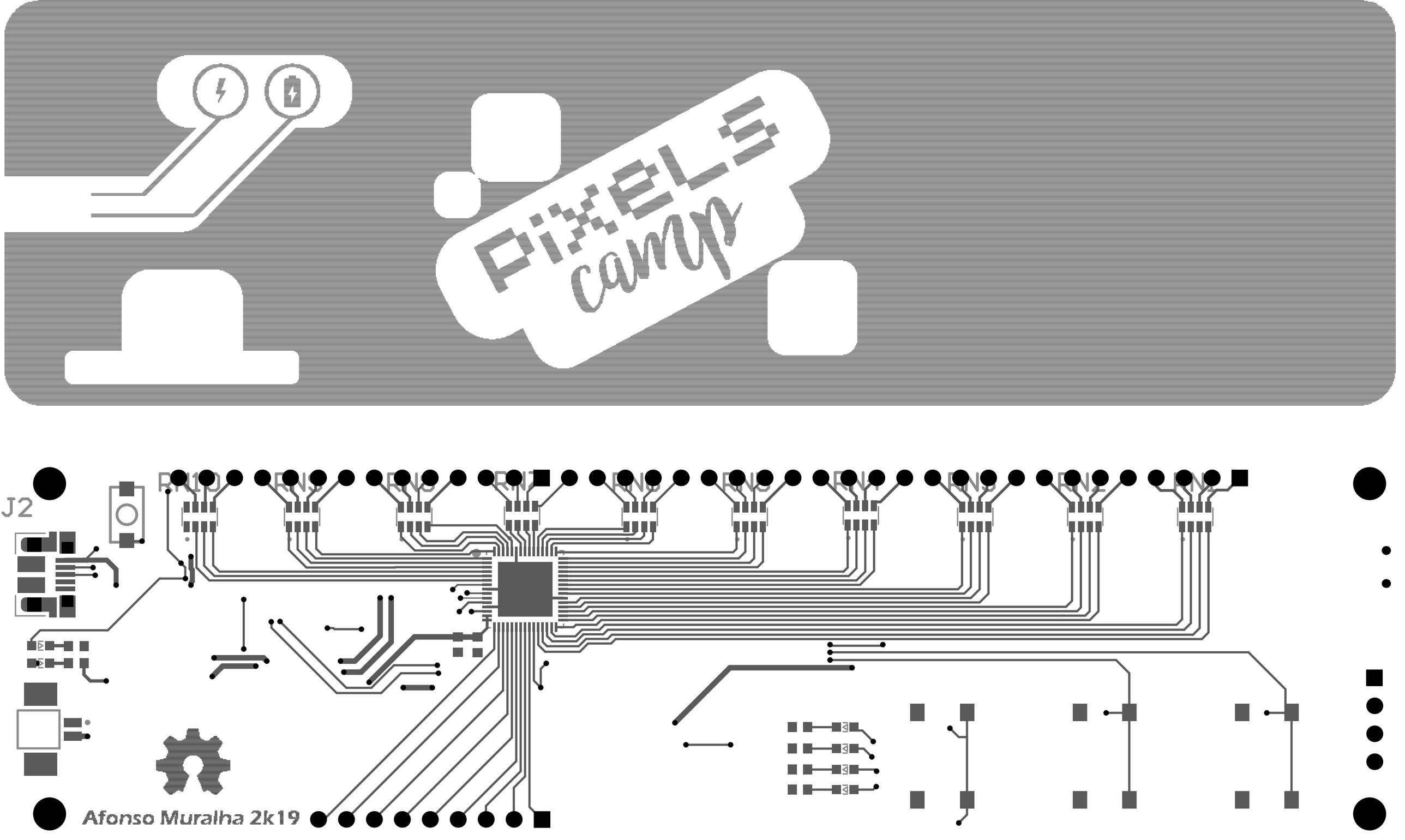
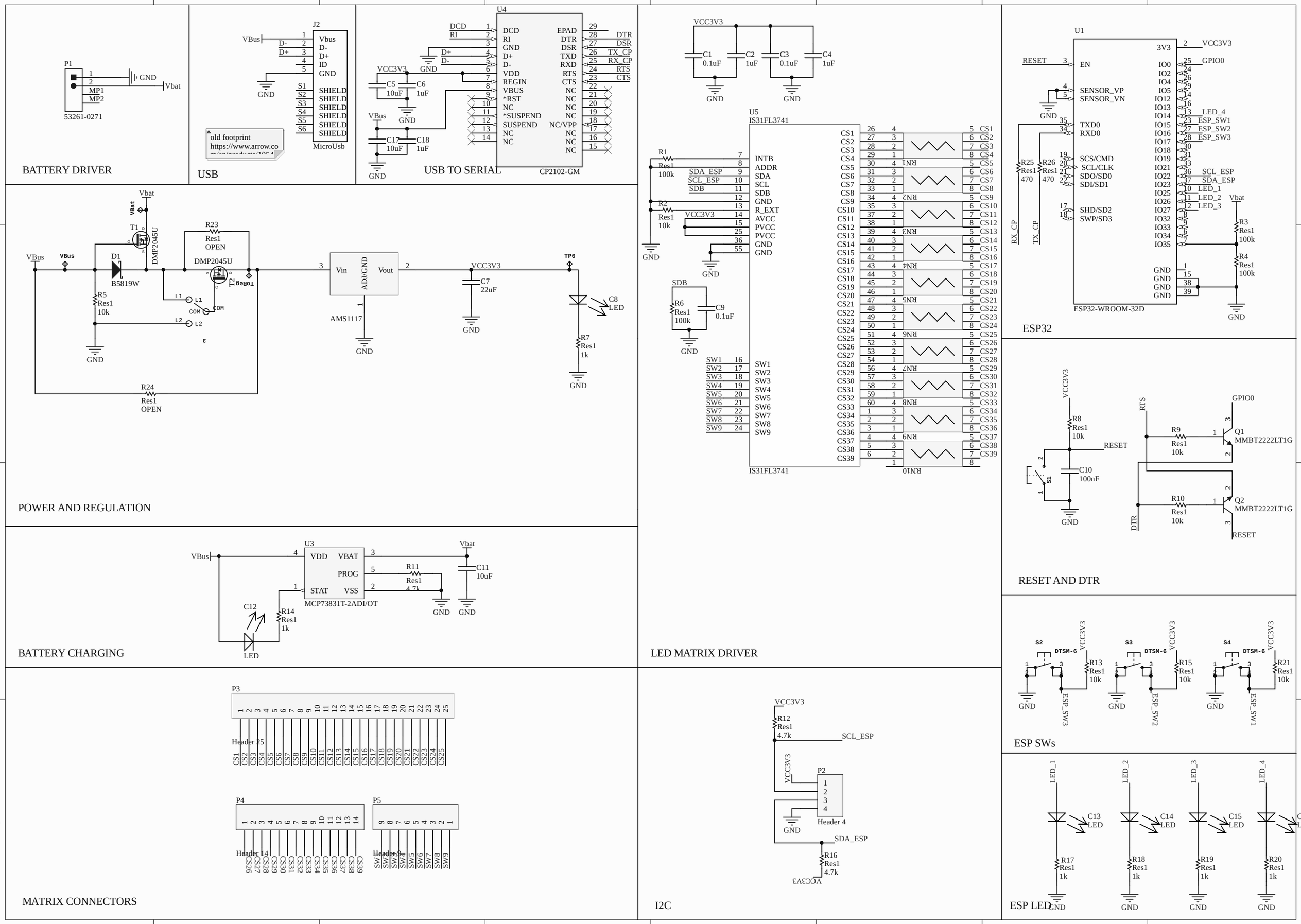

Placa
Nuno


U1
ANTENNA
U4
VBus
J2
R13
R15
R21
R25
R22
R12
R16
R26
R6
R2
R8
R9
R10
R24
R11
R3
R4
C7
C11
TP6
VBat
ToReg
Atonso Murailha 2k19


U1
U4
R13
R15
R21
R1
R10
R24
R11
R3
R4
C7
C11
TP6
VBus
VBat
IoReg


PIXELS
camp
J2
RN10
RN9
RN8
RN7
RN6
RN5
RN4
RN3
RN2
RN1
Afonso Muralha 2k19


BATTERY DRIVER
P1
53261-0271
GND
Vbat
MP1
MP2
USB
J2
MicroUsb
old footprint
https://www.arrow.com/en/products/1054
VBus
D-
D+
ID
GND
Vbus
SHIELD
USB TO SERIAL
U4
CP2102-GM
DCD
RI
GND
D+
D-
VDD
REGIN
VBUS
*RST
NC
*SUSPEND
SUSPEND
EPAD
DTR
DSR
TXD
RXD
RTS
CTS
NC/VPP
TX_CP
RX_CP
VCC3V3
C5 10uF
C6 1uF
C17 10uF
C18 1uF
POWER AND REGULATION
T1
DMP2045U
D1
B5819W
R5 Res1 10k
R23 Res1 OPEN
T2
L1
COM
L2
R24 Res1 OPEN
AMS1117
Vin
ADJ/GND
Vout
C7 22uF
TP6
C8 LED
R7 Res1 1k
BATTERY CHARGING
U3
MCP73831T-2ADI/OT
VDD
VBAT
PROG
STAT
VSS
R11 Res1 4.7k
C11 10uF
C12
R14 Res1 1k
LED
MATRIX CONNECTORS
P3
Header 25
P4
Header 14
P5
Header 9
LED MATRIX DRIVER
C1 0.1uF
C2 1uF
C3 0.1uF
C4 1uF
U5
IS31FL3741
R1 Res1 100k
R2 Res1 10k
SDA_ESP
SCL_ESP
SDB
INTB
ADDR
SDA
SCL
R_EXT
AVCC
PVCC
R6 Res1 100k
C9 0.1uF
RN1
RN2
RN3
RN4
RN5
RN6
RN7
RN8
RN9
RN10
ESP
U1
ESP32-WROOM-32D
RESET
EN
SENSOR_VP
SENSOR_VN
TXD0
RXD0
SCS/CMD
SCL/CLK
SDO/SD0
SDI/SD1
SHD/SD2
SWP/SD3
3V3
IO0
IO2
IO4
IO5
IO12
IO13
IO14
IO15
IO16
IO17
IO18
IO19
IO21
IO22
IO23
IO25
IO26
IO27
IO32
IO33
IO34
IO35
GPIO0
LED_4
ESP_SW1
ESP_SW2
ESP_SW3
SCL_ESP
SDA_ESP
LED_1
LED_2
LED_3
R25 Res1 470
R26 Res1 470
R3 Res1 100k
R4 Res1 100k
RESET AND DTR
R8 Res1 10k
C10 100nF
S1
R9 Res1 10k
R10 Res1 10k
Q1 MMBT2222LT1G
Q2 MMBT2222LT1G
ESP SWs
S2
S3
S4
DTSM-6
R13 Res1 10k
R15 Res1 10k
R21 Res1 10k
I2C
R12 Res1 4.7k
P2
Header 4
R16 Res1 4.7k
ESP LEDs
C13 LED
C14 LED
C15 LED
C16 LED
R17 Res1 1k
R18 Res1 1k
R19 Res1 1k
R20 Res1 1k