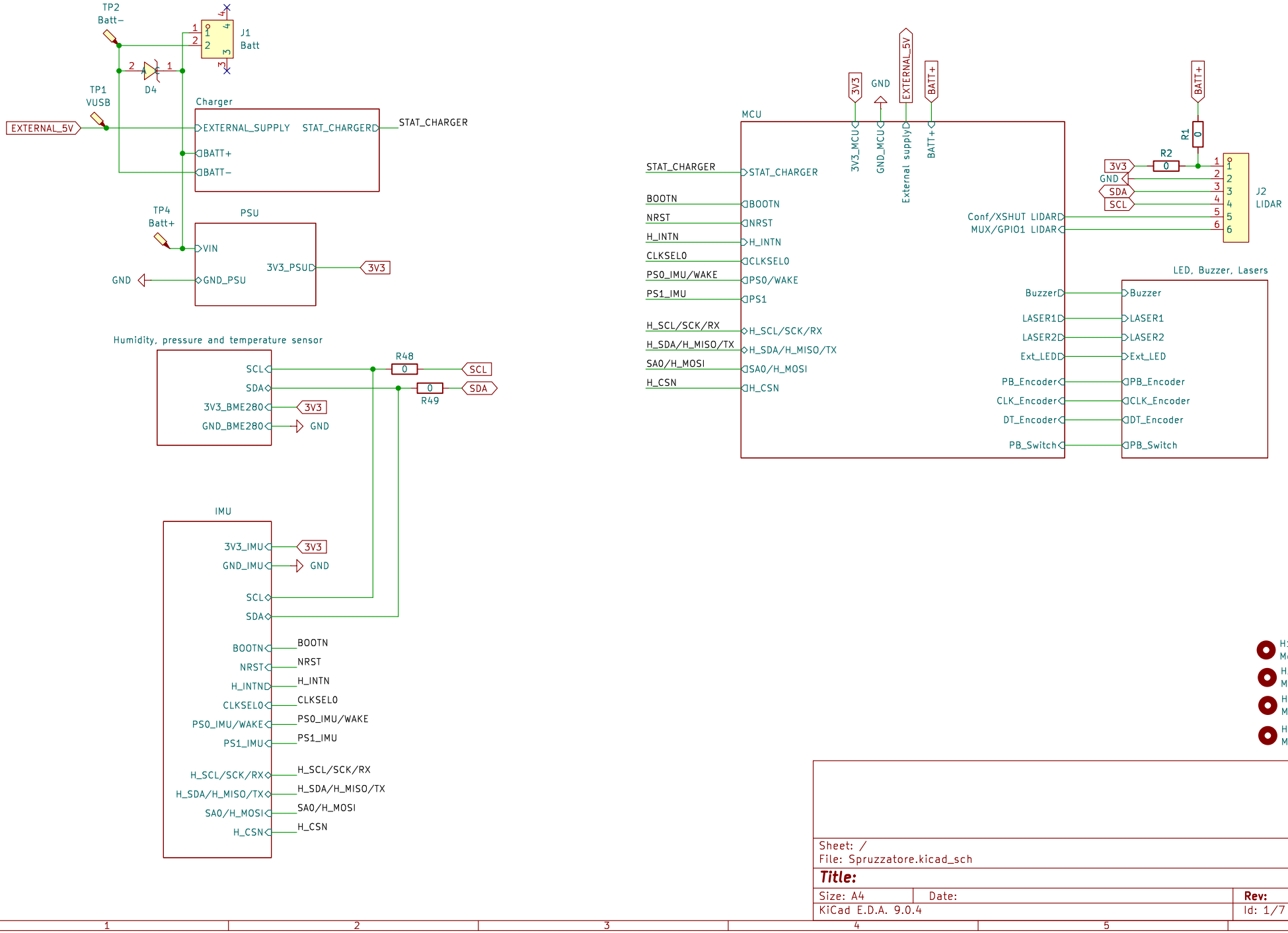
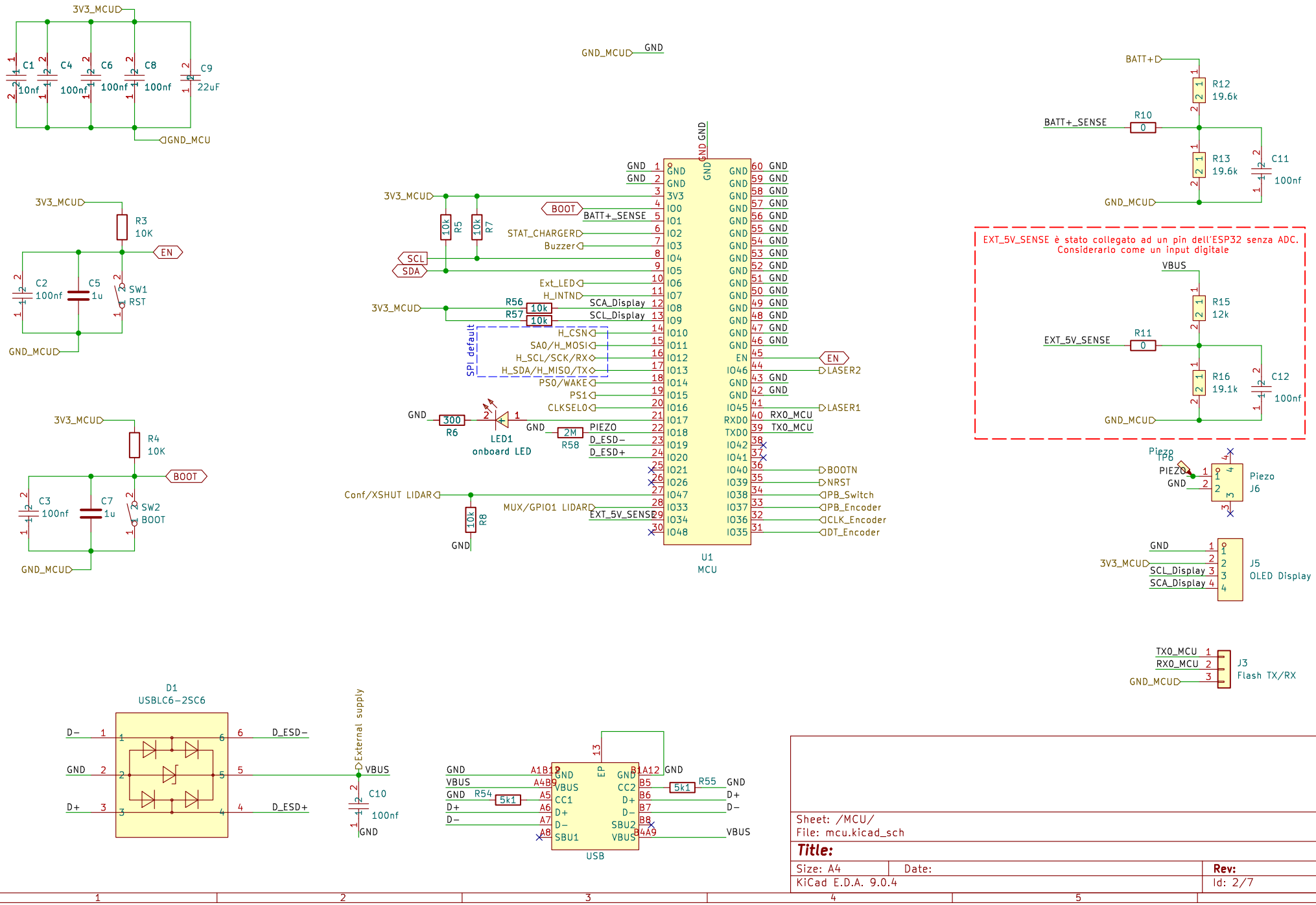
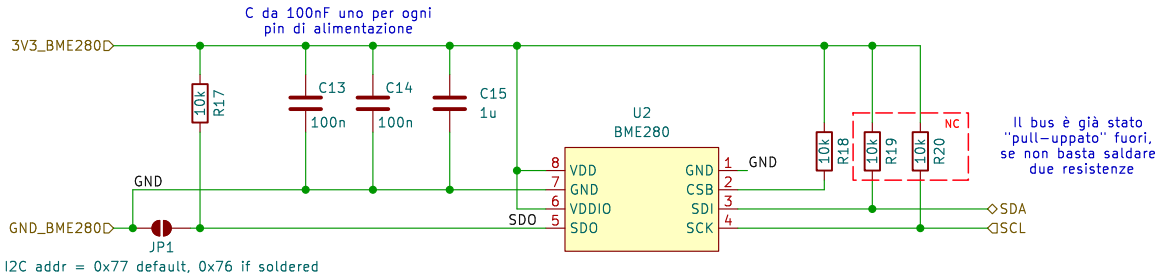
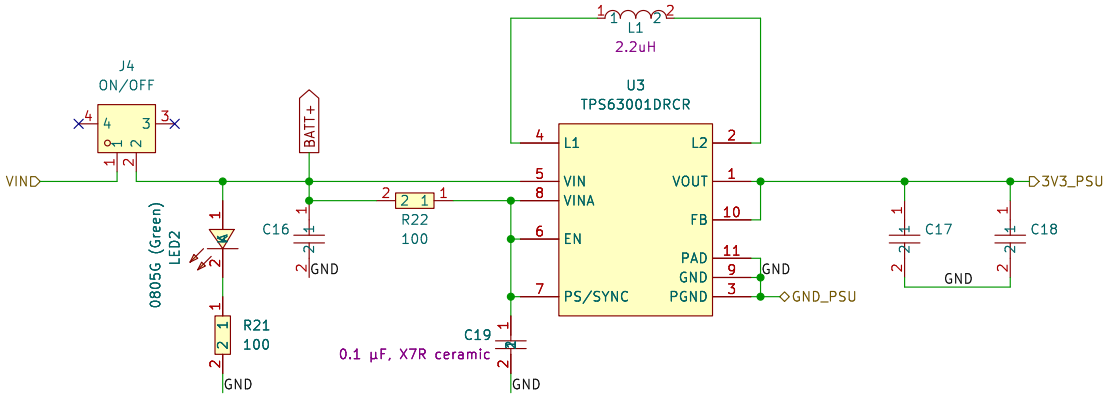

TP2
Batt−
J1
Batt
D4
TP1
VUSB
EXTERNAL_5V
Charger
EXTERNAL_SUPPLY
STAT_CHARGERD
STAT_CHARGER
BATT+
BATT−
TP4
Batt+
PSU
VIN
3V3_PSUD
3V3
GND
GND_PSU
Humidity, pressure and temperature sensor
SCL
SDA
3V3_BME280
GND_BME280
R48
0
R49
IMU
3V3_IMU
GND_IMU
BOOTN
NRST
H_INTN
CLKSEL0
PS0_IMU/WAKE
PS1_IMU
H_SCL/SCK/RX
H_SDA/H_MISO/TX
SA0/H_MOSI
H_CSN
MCU
3V3_MCU
GND_MCU
External supply
BATT+
STAT_CHARGER
BOOTN
NRST
H_INTN
CLKSEL0
PS0/WAKE
PS1
H_SCL/SCK/RX
H_SDA/H_MISO/TX
SA0/H_MOSI
H_CSN
Conf/XSHUT LIDAR
MUX/GPIO1 LIDAR
R1
R2
J2
LIDAR
LED, Buzzer, Lasers
Buzzer
LASER1
LASER2
Ext_LED
PB_Encoder
CLK_Encoder
DT_Encoder
PB_Switch
H1
MountingHole
H2
MountingHole
H3
MountingHole
H4
MountingHole
Sheet: /
File: Spruzzatore.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 1/7


3V3_MCU
C1 10nf
C4 100nf
C6 100nf
C8 100nf
C9 22uF
GND_MCU
R3 10K
EN
C2 100nf
C5 1u
SW1 RST
R4 10K
BOOT
C3 100nf
C7 1u
SW2 BOOT
GND_MCU
GND_MCU
GND
U1 MCU
3V3_MCU
R5 10k
R7 10k
BOOT
BATT+_SENSE
STAT_CHARGER
Buzzer
SCL
SDA
Ext_LED
H_INTN
R56 10k
R57 10k
SCA_Display
SCL_Display
SPI default
H_CSN
SA0/H_MOSI
H_SCL/SCK/RX
H_SDA/H_MISO/TX
PS0/WAKE
PS1
CLKSEL0
GND
300 R6
LED1 onboard LED
GND
2M R58
PIEZO
D_ESD-
D_ESD+
Conf/XSHUT LIDAR
R8 10k
GND
MUX/GPIO1 LIDAR
EXT_5V_SENSE
EN
LASER2
LASER1
RX0_MCU
TX0_MCU
BOOTN
NRST
PB_Switch
PB_Encoder
CLK_Encoder
DT_Encoder
BATT+
R12 19.6k
BATT+_SENSE
R10 0
R13 19.6k
C11 100nf
GND_MCU
EXT_5V_SENSE è stato collegato ad un pin dell'ESP32 senza ADC.
Considerarlo come un input digitale
VBUS
R15 12k
EXT_5V_SENSE
R11 0
R16 19.1k
C12 100nf
GND_MCU
Piezo
TP6
PIEZO
GND
Piezo J6
GND
3V3_MCU
SCL_Display
SCA_Display
J5 OLED Display
TX0_MCU
RX0_MCU
GND_MCU
J3 Flash TX/RX
D1 USBLC6-2SC6
D-
GND
D+
D_ESD-
D_ESD+
External supply
VBUS
C10 100nf
GND
USB
GND
VBUS
GND
D+
D-
R54 5k1
R55 5k1
VBUS
Sheet: /MCU/
File: mcu.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 9.0.4
Id: 2/7



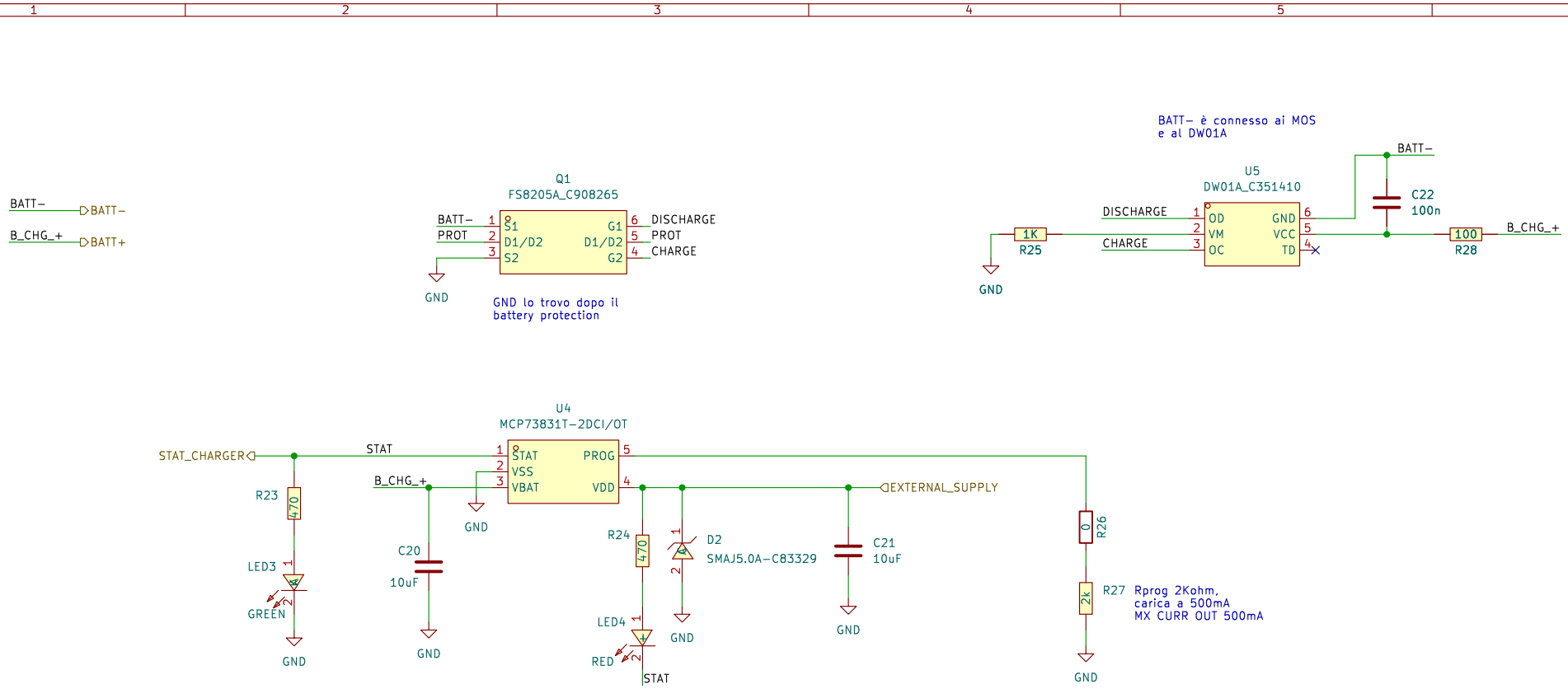
Sheet: /Humidity, pressure and temperature sensor/		
File: BME280.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 3/7



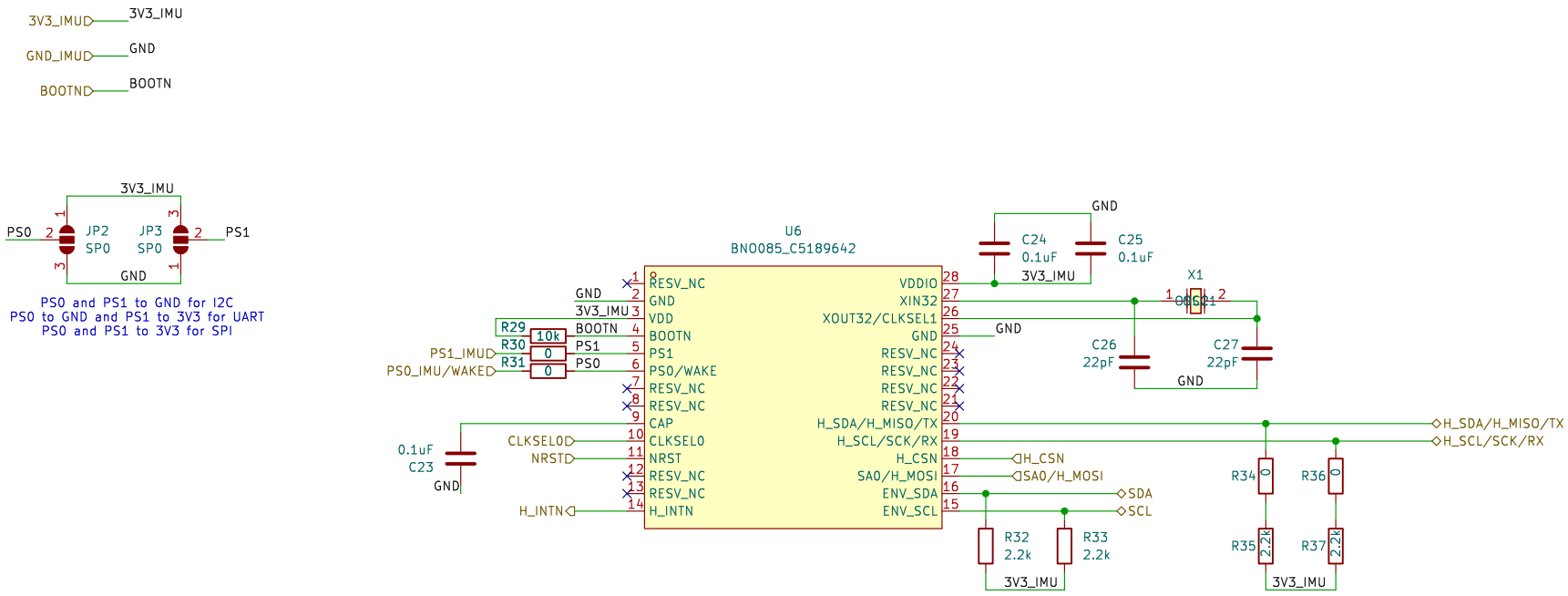
Sheet: /PSU/
File: TPS63000_1A_3.3V.kicad_sch

Title:

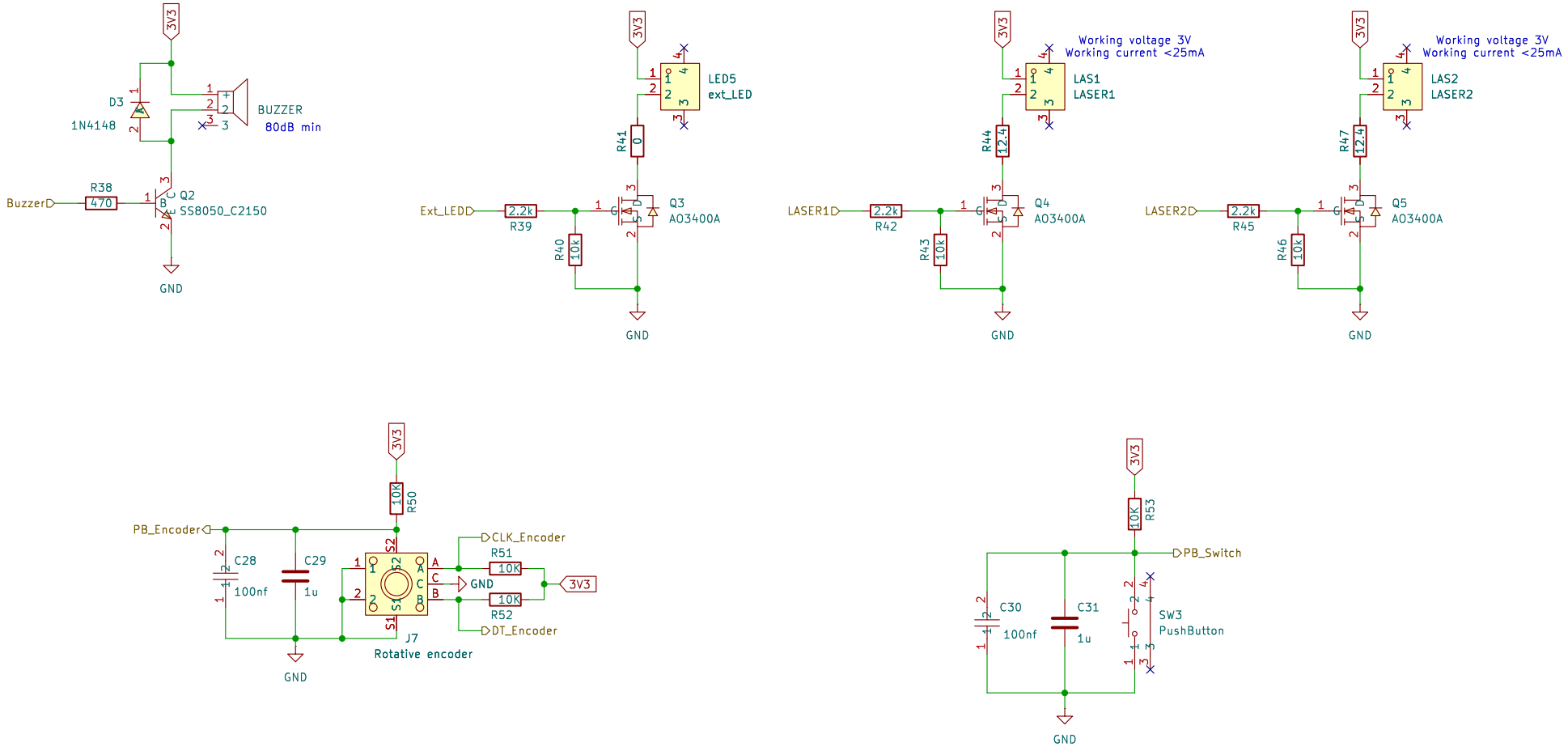
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 4/7



Sheet: /Charger/		
File: MCP73831_1S_charger.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 5/7



Sheet: /IMU/		
File: BNO085.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 6/7



Sheet: /LED, Buzzer, Lasers/		
File: Utilities.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. 9.0.4		Id: 7/7