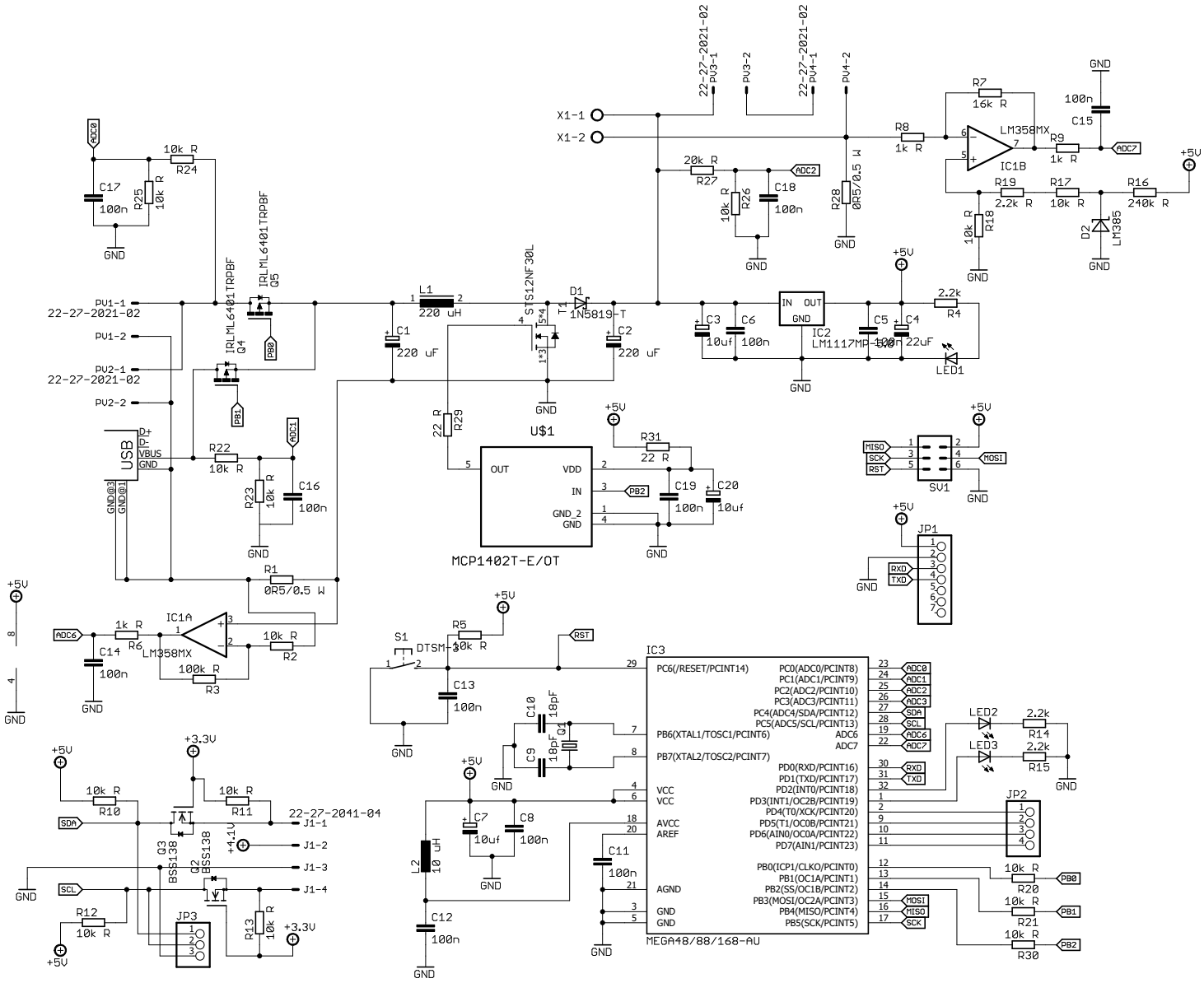

22-27-2021-02
PV3-1
PV3-2
PV4-1
PV4-2
X1-1
X1-2
R7
16k R
R8
1k R
LM358MX
IC1B
R9
1k R
ADC7
C15
100n
GND
+5V
20k R
R27
ADC2
C18
100n
R26
10k R
R28
0R5/0.5 W
R19
2.2k R
R17
10k R
R16
240k R
R18
10k R
D2
LM385
ADC0
10k R
R24
C17
100n
R25
10k R
IRLML6401TRPBF
Q5
IRLML6401TRPBF
Q4
PB0
PB1
PV1-1
22-27-2021-02
PV1-2
PV2-1
22-27-2021-02
PV2-2
L1
220 uH
STS12NF30L
D1
1N5819-T
C1
220 uF
C2
220 uF
C3
10uf
C6
100n
IC2
LM1117MP-3.3
C5
100n
C4
22uF
2.2k
R4
LED1
USB
D+
D-
VBUS
GND
GND@3
GND@1
R22
10k R
ADC1
R23
10k R
C16
100n
R29
22 R
U$1
OUT
VDD
IN
PB2
GND_2
GND
MCP1402T-E/OT
R31
22 R
C19
100n
C20
10uf
MISO
SCK
RST
MOSI
SV1
JP1
RXD
TXD
R1
0R5/0.5 W
ADC6
IC1A
1k R
R6
LM358MX
C14
100n
10k R
R2
100k R
R3
S1
DTSM-3
R5
10k R
RST
C13
100n
IC3
PC6(/RESET/PCINT14)
PB6(XTAL1/TOSC1/PCINT6)
PB7(XTAL2/TOSC2/PCINT7)
VCC
VCC
AVCC
AREF
AGND
GND
GND
PC0(ADC0/PCINT8)
PC1(ADC1/PCINT9)
PC2(ADC2/PCINT10)
PC3(ADC3/PCINT11)
PC4(ADC4/SDA/PCINT12)
PC5(ADC5/SCL/PCINT13)
ADC6
ADC7
PD0(RXD/PCINT16)
PD1(TXD/PCINT17)
PD2(INT0/PCINT18)
PD3(INT1/OC2B/PCINT19)
PD4(T0/XCK/PCINT20)
PD5(T1/OC0B/PCINT21)
PD6(AIN0/OC0A/PCINT22)
PD7(AIN1/PCINT23)
PB0(ICP1/CLKO/PCINT0)
PB1(OC1A/PCINT1)
PB2(SS/OC1B/PCINT2)
PB3(MOSI/OC2A/PCINT3)
PB4(MISO/PCINT4)
PB5(SCK/PCINT5)
MEGA48/88/168-AU
C10
18pF
C9
18pF
G1
C7
10uf
C8
100n
C11
100n
C12
100n
L2
10 uH
LED2
LED3
2.2k
R14
2.2k
R15
JP2
10k R
R20
10k R
R21
10k R
R30
PB0
PB1
PB2
MOSI
MISO
SCK
+3.3V
+4.1V
R10
10k R
R11
10k R
SDA
SCL
Q3
BSS138
Q2
BSS138
22-27-2041-04
J1-1
J1-2
J1-3
J1-4
R12
10k R
R13
10k R
JP3