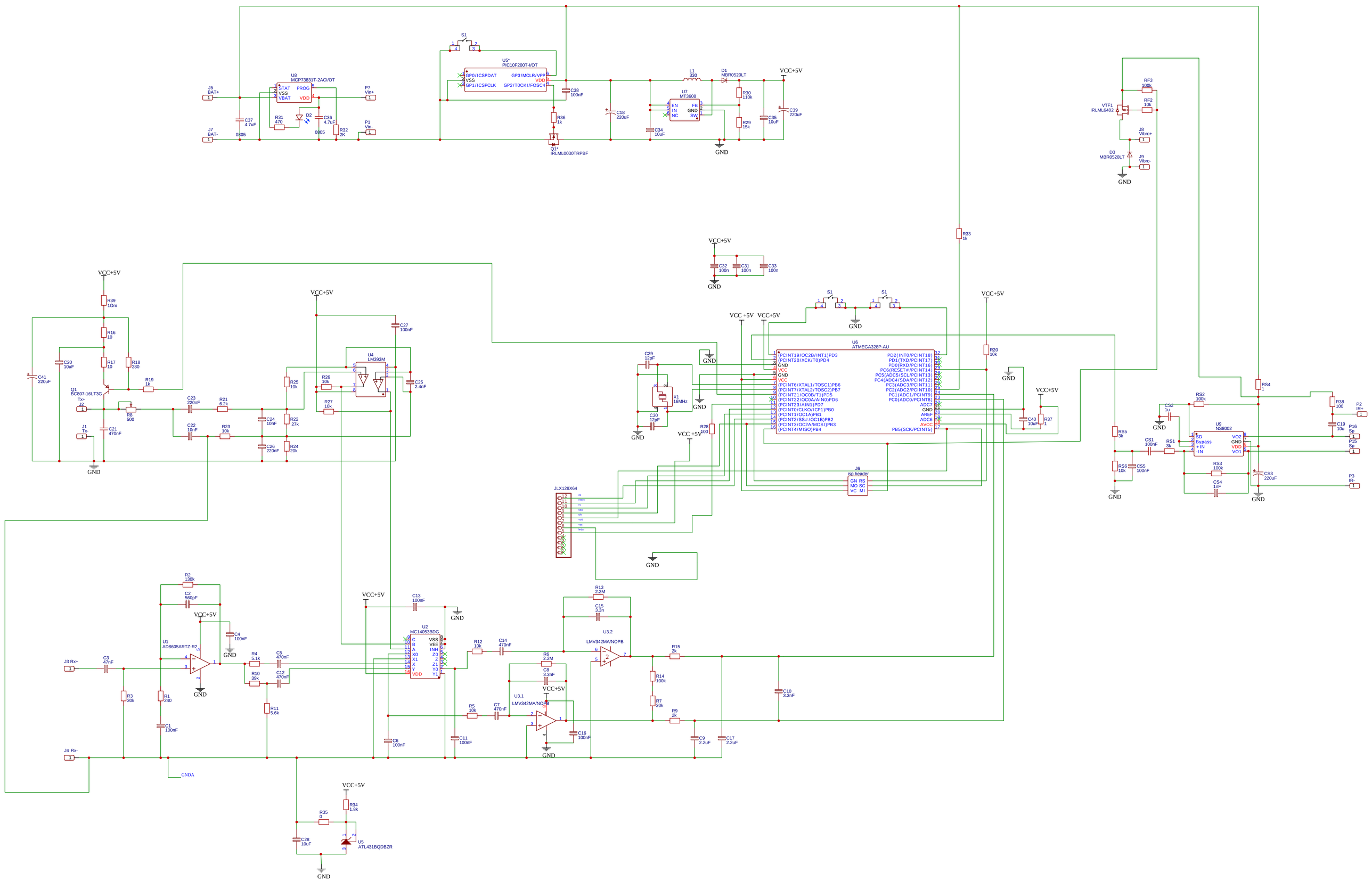
U8
MCP73831T-2ACI/OT
STAT
VSS
VBAT
PROG
VDD
J5
BAT+
J7
BAT-
C37
4.7uF
0805
R31
470
D2
C36
4.7uF
0805
R32
2K
P7
Vin+
P1
Vin-
S1
U5*
PIC10F200T-I/OT
GP0/ICSPDAT
VSS
GP1/ICSPCLK
GP3/MCLR/VPP
VDD
GP2/T0CKI/FOSC4
C38
100nF
R36
1k
Q1*
IRLML0030TRPBF
C18
220uF
L1
330
D1
MBR0520LT
U7
MT3608
EN
IN
NC
FB
GND
SW
C34
10uF
R30
110k
R29
15k
C35
10uF
C39
220uF
VCC+5V
GND
VTF1
IRLML6402
RF3
100k
RF2
10k
J8
Vibro+
D3
MBR0520LT
J9
Vibro-
R33
1k
C32
100n
C31
100n
C33
100n
R39
10m
R16
10
R17
10
R18
280
C20
10uF
C41
220uF
Q1
BC807-16LT3G
Tx+
J2
R19
1k
R8
500
J1
Tx-
C21
470nF
C23
220nF
R21
6.2k
C22
10nF
R23
10k
C24
10nF
R22
27k
C26
220nF
R24
20k
R25
10k
R26
10k
R27
10k
U4
LM393M
C27
100nF
C25
2.4nF
C29
12pF
X1
16MHz
C30
12pF
R28
100
U6
ATMEGA328P-AU
(PCINT19/OC2B/INT1)PD3
(PCINT20/XCK/T0)PD4
GND
VCC
GND
VCC
(PCINT6/XTAL1/TOSC1)PB6
(PCINT7/XTAL2/TOSC2)PB7
(PCINT21/OC0B/T1)PD5
(PCINT22/OC0A/AIN0)PD6
(PCINT23/AIN1)PD7
(PCINT0/CLKO/ICP1)PB0
(PCINT1/OC1A)PB1
(PCINT2/SS#/OC1B)PB2
(PCINT3/OC2A/MOSI)PB3
(PCINT4/MISO)PB4
PD2(INT0/PCINT18)
PD1(TXD/PCINT17)
PD0(RXD/PCINT16)
PC6(RESET#/PCINT14)
PC5(ADC5/SCL/PCINT13)
PC4(ADC4/SDA/PCINT12)
PC3(ADC3/PCINT11)
PC2(ADC2/PCINT10)
PC1(ADC1/PCINT9)
PC0(ADC0/PCINT8)
ADC7
GND
AREF
ADC6
AVCC
PB5(SCK/PCINT5)
R20
10k
C40
10uF
R37
1
J6
isp header
GN RS
MO SC
VC MI
JLX128X64
cs
reset
rs
sda
clk
vdd
vss
leda
RS4
1
R38
100
P2
IR+
C19
10u
P16
Sp
P15
Sp
P3
IR-
RS2
100k
CS2
1u
U9
NS8002
SD
Bypass
+IN
-IN
GND
VO2
VDD
VO1
CS1
100nF
RS1
3k
RS5
3k
RS6
10k
CS5
100nF
RS3
100k
CS4
1nF
CS3
220uF
R2
130k
C2
560pF
C4
100nF
U1
AD8605ART-R2
J3 Rx+
C3
47nF
R3
30k
R1
240
C1
100nF
J4 Rx-
GNDA
R4
5.1k
C5
470nF
R10
39k
C12
470nF
R11
5.6k
U2
MC14053BDG
C
B
A
X0
X1
X
Y
VDD
VSS
VEE
INH
Z0
Z
Z1
Y0
Y1
C13
100nF
C6
100nF
C11
100nF
R12
10k
C14
470nF
R5
10k
C7
470nF
R6
2.2M
C8
3.3nF
U3.1
LMV342MA/NOPB
C16
100nF
R13
2.2M
C15
3.3n
U3.2
LMV342MA/NOPB
R15
2k
R14
100k
R7
20k
R9
2k
C10
3.3nF
C9
2.2uF
C17
2.2uF
R35
0
R34
1.8k
C28
10uF
U5
ATL431BQDBZR