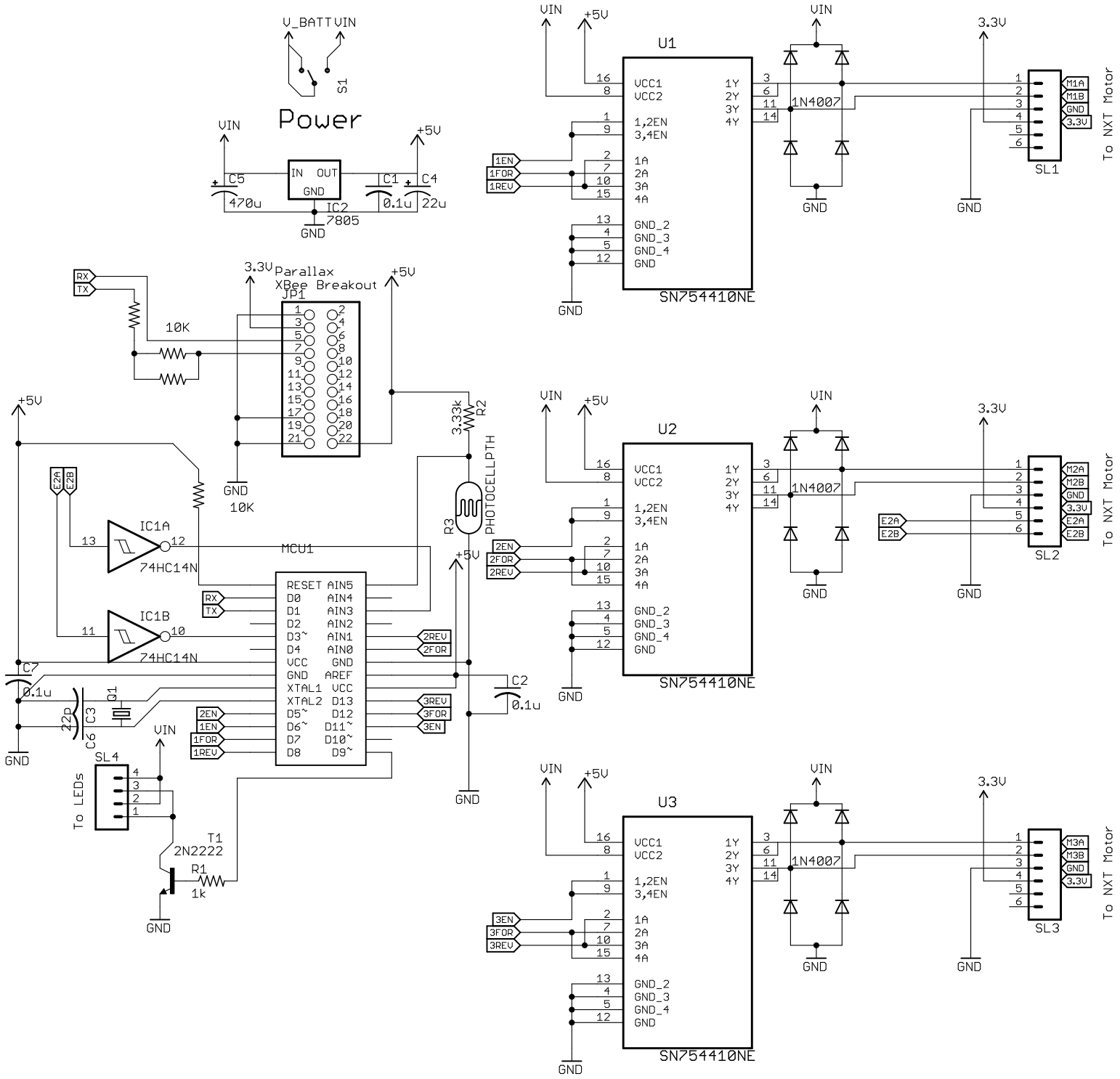
Power
V_BATT
VIN
S1
IN
OUT
GND
IC2
7805
C5
470u
C1
0.1u
C4
22u
+5V
GND
U1
U2
U3
VCC1
VCC2
1,2EN
3,4EN
1A
2A
3A
4A
1Y
2Y
3Y
4Y
GND_2
GND_3
GND_4
SN754410NE
1N4007
1EN
1FOR
1REV
2EN
2FOR
2REV
3EN
3FOR
3REV
SL1
SL2
SL3
M1A
M1B
M2A
M2B
M3A
M3B
3.3V
To NXT Motor
Parallax
XBee Breakout
JP1
RX
TX
10K
R2
3.33k
R3
PHOTOCELLPTH
E2A
E2B
IC1A
IC1B
74HC14N
MCU1
RESET
D0
D1
D2
D3~
D4
VCC
GND
XTAL1
XTAL2
D5~
D6~
D7
D8
AIN5
AIN4
AIN3
AIN2
AIN1
AIN0
AREF
D13
D12
D11~
D10~
D9~
C7
0.1u
C2
0.1u
22p
C3
C6
G1
SL4
To LEDs
T1
2N2222
R1
1k