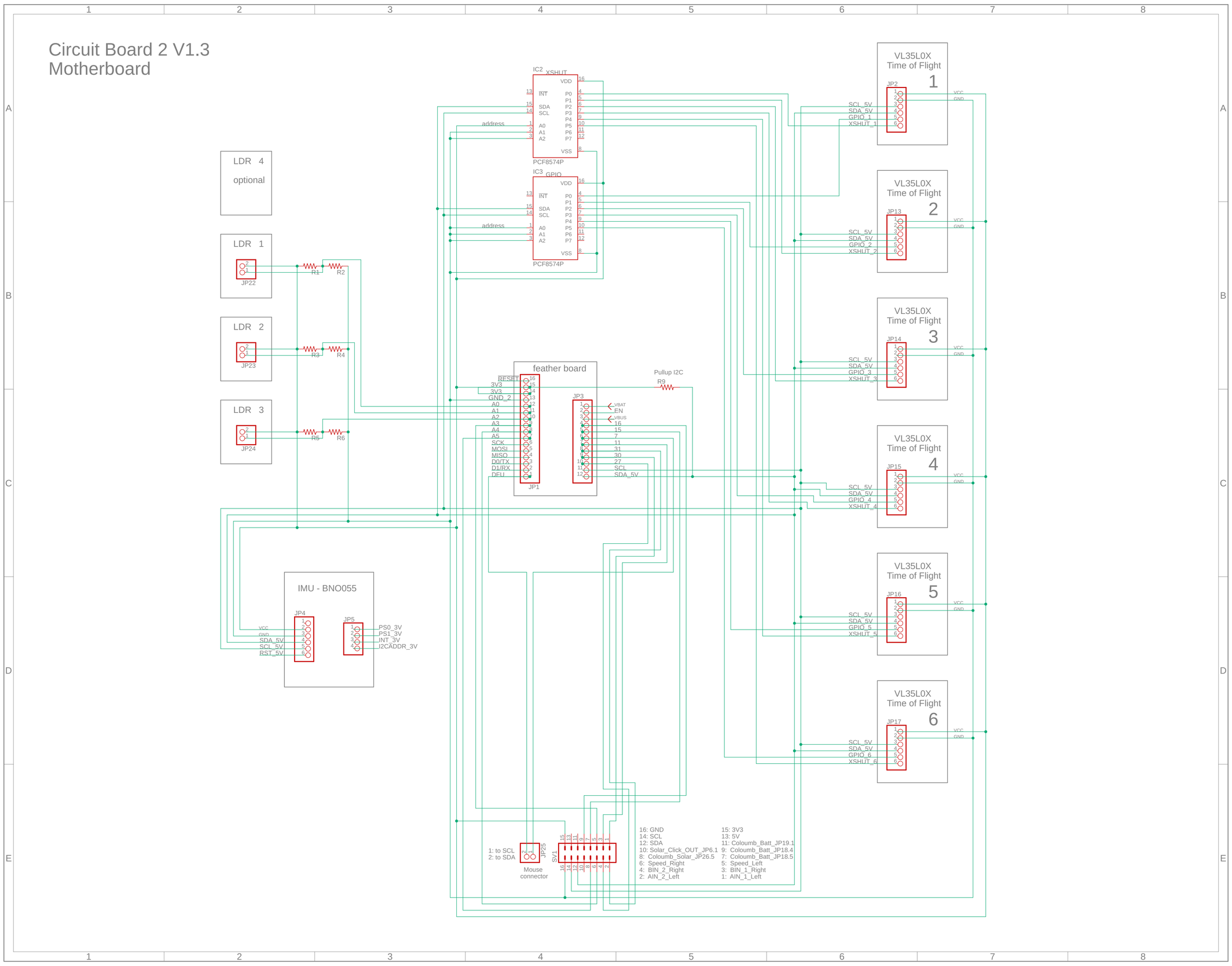
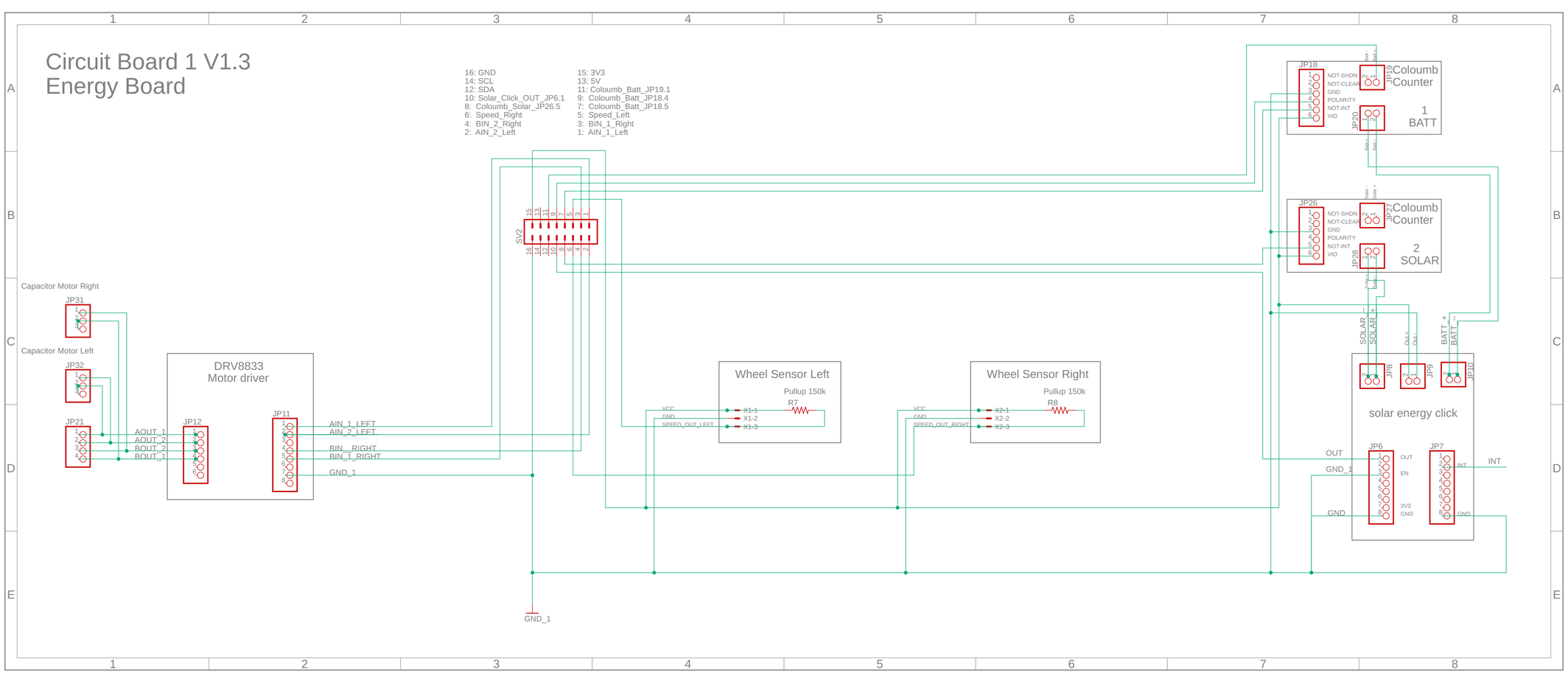

Circuit Board 2 V1.3
Motherboard
IC2
PCF8574P
IC3
PCF8574P
LDR 4
optional
LDR 1
LDR 2
LDR 3
JP22
JP23
JP24
R1
R2
R3
R4
R5
R6
feather board
JP1
JP3
Pullup I2C
R9
IMU - BNO055
JP4
JP5
VL35L0X
Time of Flight
1
2
3
4
5
6
JP2
JP13
JP14
JP15
JP16
JP17
SV1
JP25
Mouse
connector
1: to SCL
2: to SDA
16: GND
14: SCL
12: SDA
10: Solar_Click_OUT_JP6.1
8: Coloumb_Solar_JP26.5
6: Speed_Right
4: BIN_2_Right
2: AIN_2_Left
15: 3V3
13: 5V
11: Coloumb_Batt_JP19.1
9: Coloumb_Batt_JP18.4
7: Coloumb_Batt_JP18.5
5: Speed_Left
3: BIN_1_Right
1: AIN_1_Left


Circuit Board 1 V1.3
Energy Board
16: GND
14: SCL
12: SDA
10: Solar_Click_OUT_JP6.1
8: Coloumb_Solar_JP26.5
6: Speed_Right
4: BIN_2_Right
2: AIN_2_Left
15: 3V3
13: 5V
11: Coloumb_Batt_JP19.1
9: Coloumb_Batt_JP18.4
7: Coloumb_Batt_JP18.5
5: Speed_Left
3: BIN_1_Right
1: AIN_1_Left
SV2
JP18
JP19
JP20
Coloumb
Counter
1
BATT
JP26
JP27
JP28
2
SOLAR
Capacitor Motor Right
JP31
Capacitor Motor Left
JP32
JP21
DRV8833
Motor driver
JP12
JP11
AOUT_1
AOUT_2
BOUT_2
BOUT_1
AIN_1_LEFT
AIN_2_LEFT
BIN_RIGHT
BIN_1_RIGHT
GND_1
Wheel Sensor Left
Pullup 150k
R7
Wheel Sensor Right
Pullup 150k
R8
solar energy click
JP6
JP7
JP8
JP9
JP10
OUT
GND_1
GND
INT