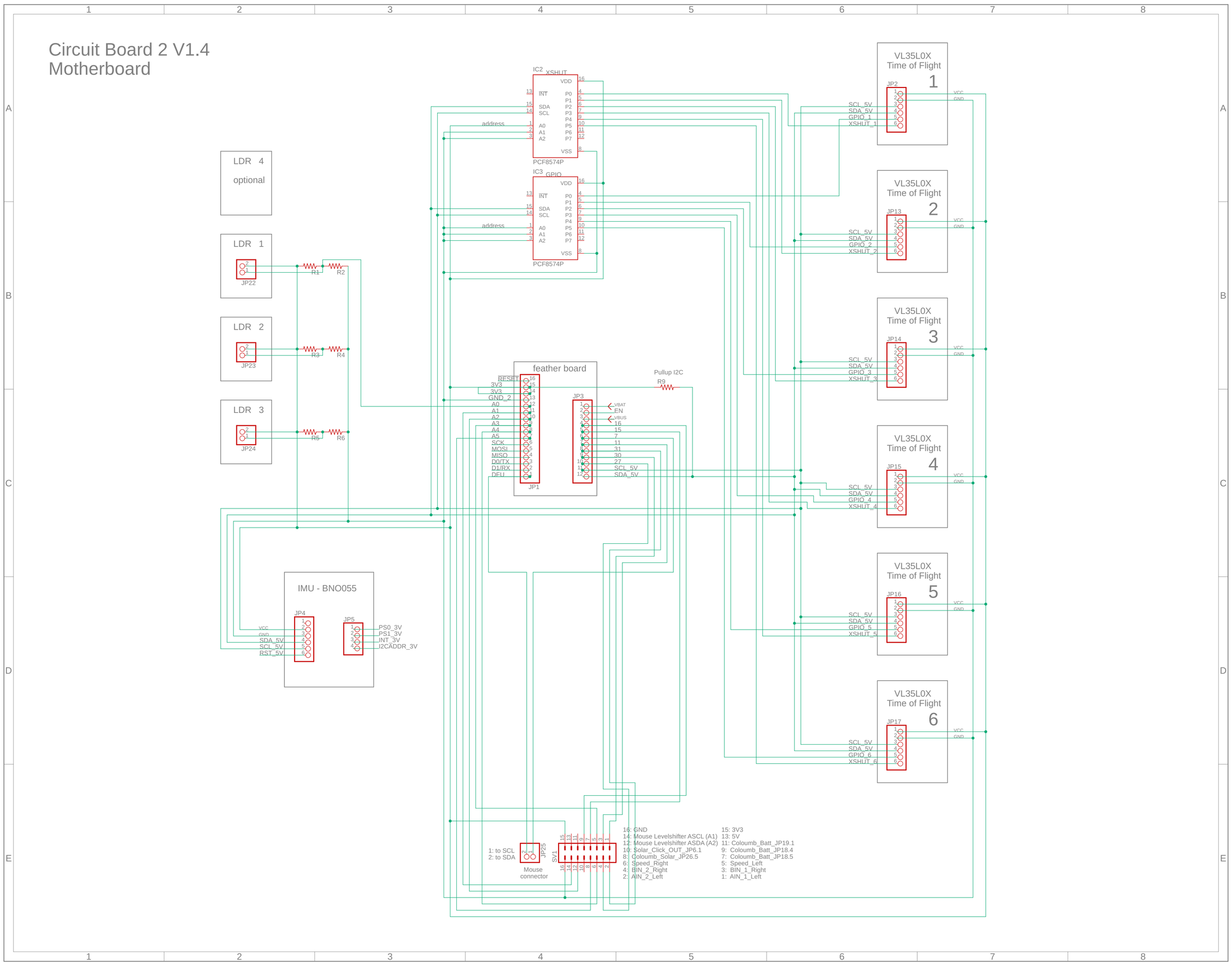
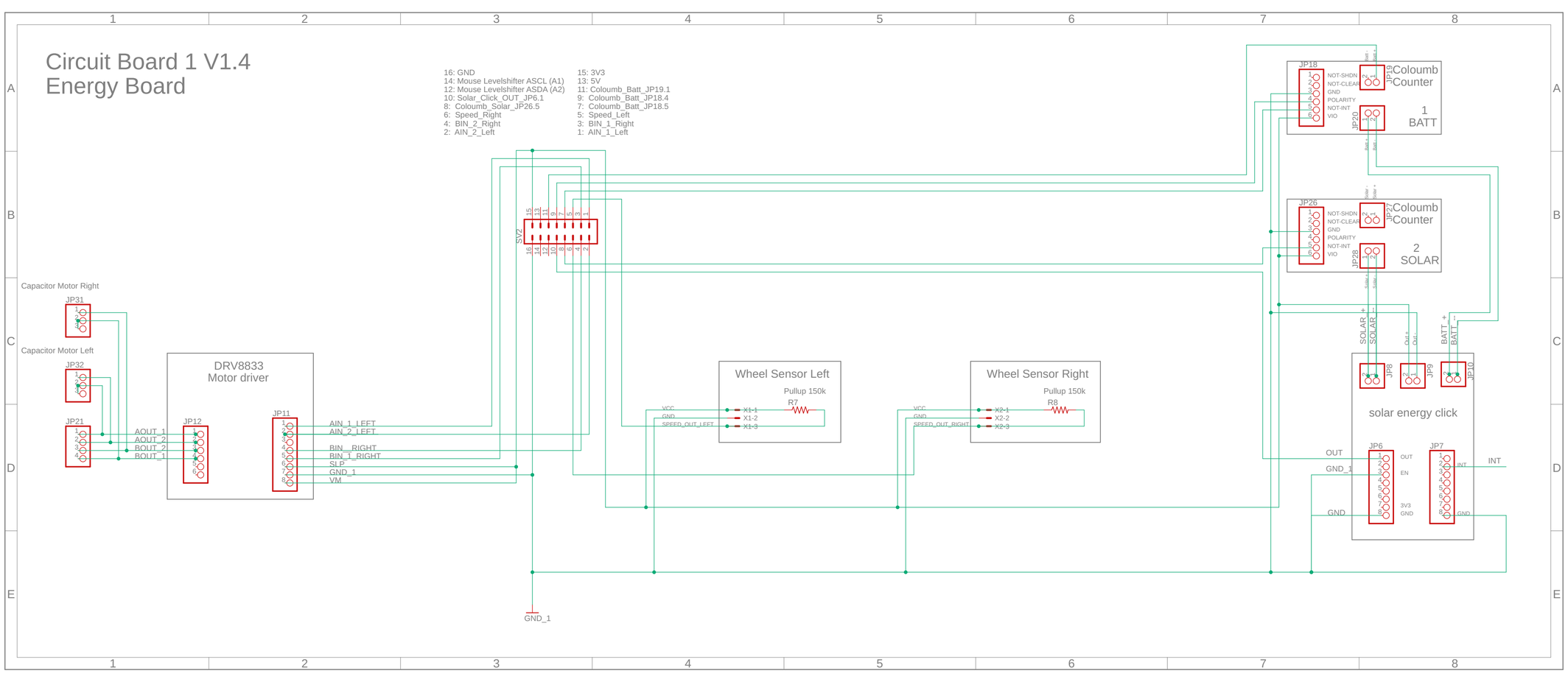

Circuit Board 2 V1.4
Motherboard
IC2
PCF8574P
IC3
PCF8574P
LDR 4
optional
LDR 1
LDR 2
LDR 3
feather board
Pullup I2C
IMU - BNO055
VL35L0X
Time of Flight
1
2
3
4
5
6
Mouse
connector
1: to SCL
2: to SDA
16: GND
14: Mouse Levelshifter ASCL (A1)
12: Mouse Levelshifter ASDA (A2)
10: Solar_Click_OUT_JP6.1
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 V1.4
Energy Board
16: GND
14: Mouse Levelshifter ASCL (A1)
12: Mouse Levelshifter ASDA (A2)
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
Coloumb
Counter
1
BATT
Coloumb
Counter
2
SOLAR
Capacitor Motor Right
Capacitor Motor Left
DRV8833
Motor driver
Wheel Sensor Left
Pullup 150k
Wheel Sensor Right
Pullup 150k
solar energy click
GND_1