

YouTube.com/TapendraMandal
Facebook.com/TapendraMandal

Encoder Motor 1

M+
M-
GND
Vcc
A
B

B
A
Vcc
GND
M-
M+

BATTERY 7.4VOLT

SWITCH

Encoder Motor 2

Bluetooth LE 4.0

HM-10

GND
VCC
RX
TX

TB6612

Dual Motor Driver

PWMA
AIN2
AIN1
nSTBY
BIN1
BIN2
PWMB
GND

VIN
GND
5V
5V
3.3V
AREF
RESET
A0(RX0)
A1(TX0)
A2
A3
2
18
VCC (5V)
GND
GND
A9
A10
A11
A12
A13
A14
A15
0(RX0)
1(TX0)
A4
3
4
5
6
7
8
9
10
11
12
13
A6
A7
A8
GND

GND
14(TX3)
15(RX3)
16(TX2)
17(RX2)
A5
19(RX1)
20(SDA)
21(SCL)

R2
10k
R1
10k

MPU-6050

8 INT
7 ADO
6 XCL
5 XDA
4 SDA
3 SCL
2 GND
1 +5V

TITLE:

Self Balancing Robot

REV: 1.0

Date: 2018-Feb-09

Sheet: 1/1

EasyEDA V4.8.5

Drawn By: TapendraMandal