+5V
D1
C1
100n
GND

IN OUT
ADJ
IC1
LD117AS33TR
GND

VCC
V3V
C2
10u
C7
100n
GND GND

VCC
V3V
D2

GND
+5V
TX
RX

6
5
4
3
2
1
JP2

VCC
R2 R6

PROG
1
2

GND

JP3 JP1
1 1
2 2
3 3
4 4
5 5
6 6

VCC

SW2
RESET
GND

JP5
1
2
3
4
5
6
7
8

M1
RESET   TX
ADC   RX
CH_PD   GPIO4
GPIO16   GPIO5
GPIO14   GPIO0
GPIO12   GPIO2
GPIO13   GPIO15
VCC   GND

CS0 MISO GPIO9   GPIO10 MOSI SCLK

ESP12Q

D0
D5
D6
D7

R3 R1

V3V

R5

LED1

GND

JP6
1
2
3
4
5
6
7
8

TX
RX
D2
D1
D3
D4
D8

GND

R7 R4

LED2

GND

JP4
1 2 3 4 5 6

Motor A connected to GPIO 16,14,12,13
Motor B connected to GPIO 4,5,0,2
Ultrasonic connected to ADC