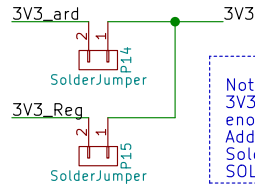
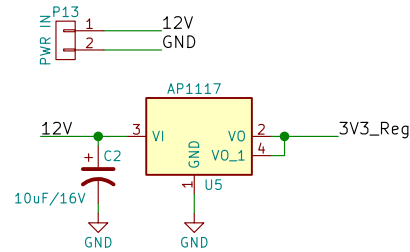


## Power Supply

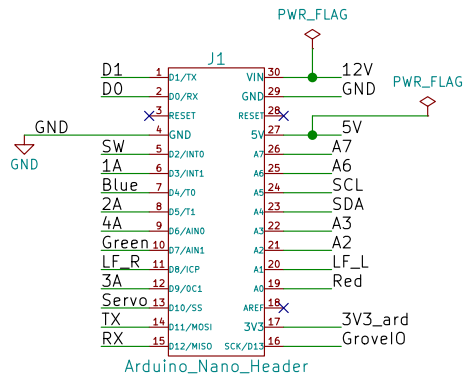


Note:  
3V3 from nano will not be able to supply enough current to run esp, and will result in resets. Added a 1117 regulator to get 3v3 from 12v. Solder jumper gives you options to select the 3v3 source. SOLDER ONLY ONE JUMPER.

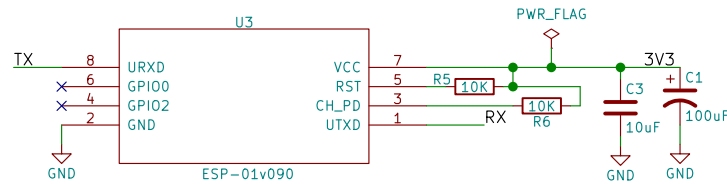
Note:  
Pin Functions  
Digital  
0: IO header  
1: IO header  
2: tactile sw  
3: left motor 1  
4: Blue Led  
5: left motor 2  
6: right motor 1  
7: Green LED  
8: Line sensor right  
9: right motor 2  
10: servo  
11: tx esp  
12: rx esp  
13: Grove io

Analog  
0: Red LED  
1: Line sensor Left  
2: bbc IO  
3: bbc IO  
4: SDA bbc io  
5: SCL bbc io  
6: bbc io  
7: bbc io

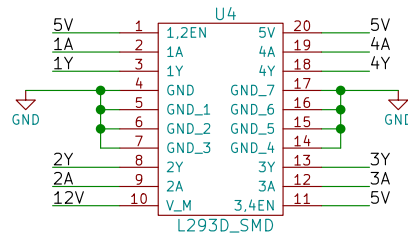
## Arduino Nano



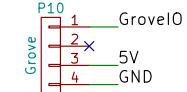
## ESP-01



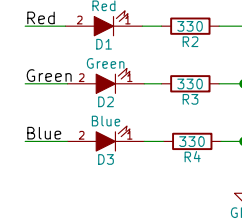
## Motor Driver



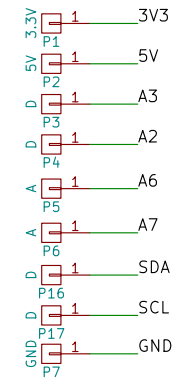
## In/Out



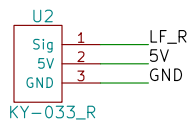
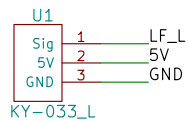
## LEDs



## BBC Connector



## Line Sensor



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File: EasyLab4Kids.sch

Title: Easy Lab for Kids

Size: A4 Date: 2017-09-16

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Rev:  
Id: 1/1