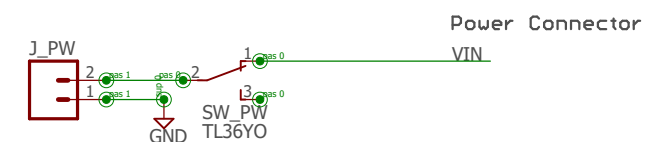
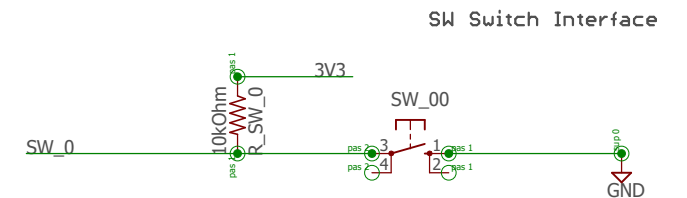
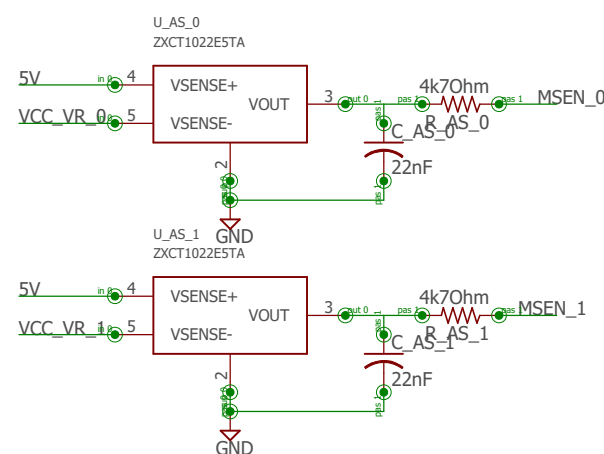
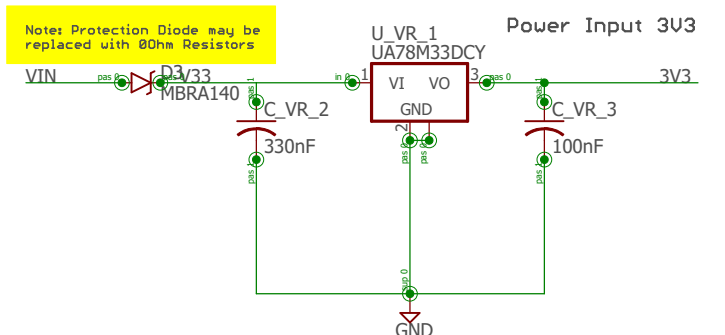
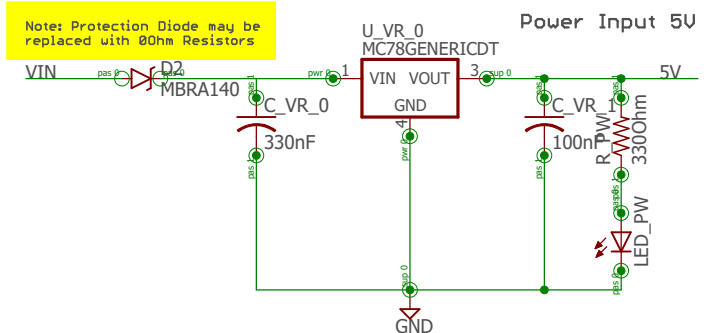
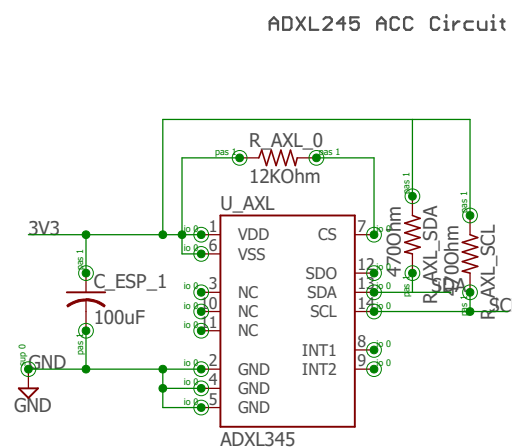
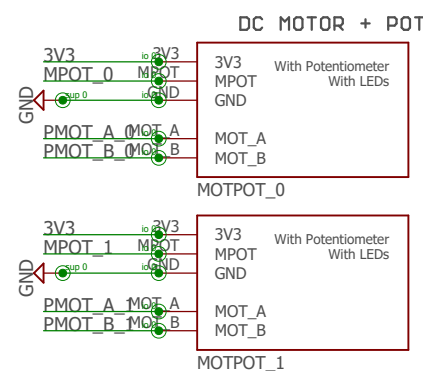
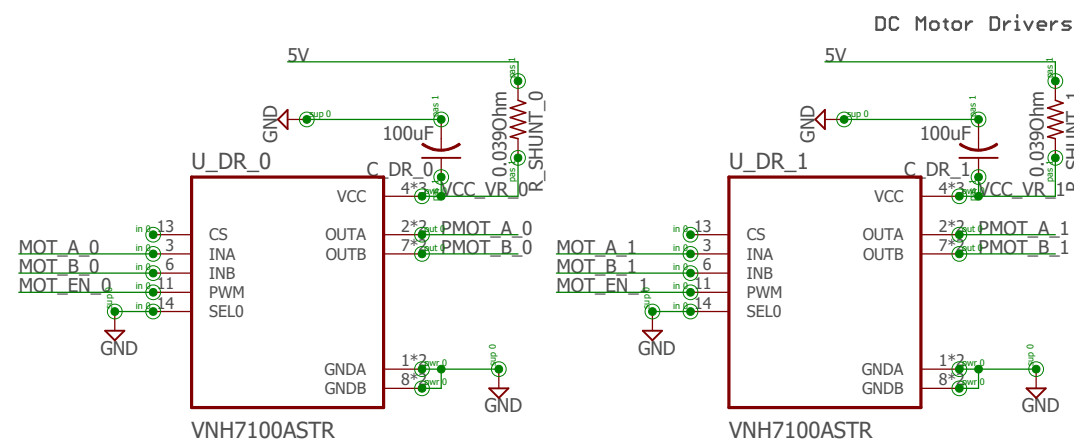


Board Glossary	
<u>GPIO/PIN:</u>	<u>Signal:</u>
GPIO4	MOT_EN_0
GPIO18	MOT_A_0
GPIO19	MOT_B_0
GPIO27	MPOT_0
GPIO5	MOT_EN_1
GPIO25	MOT_A_1
GPIO14	MOT_B_1
GPIO32	MPOT_1
GPIO12	MSEN_0
GPIO33	MSEN_1
GPIO17	LED_RGB
GPIO16	SW_0
GPIO21	SDA
GPIO22	SCL



This Schematic is heavily based on:  
[https://dl.espressif.com/dl/schematics/ESP32-Core-Board-V2\\_sch.pdf](https://dl.espressif.com/dl/schematics/ESP32-Core-Board-V2_sch.pdf)

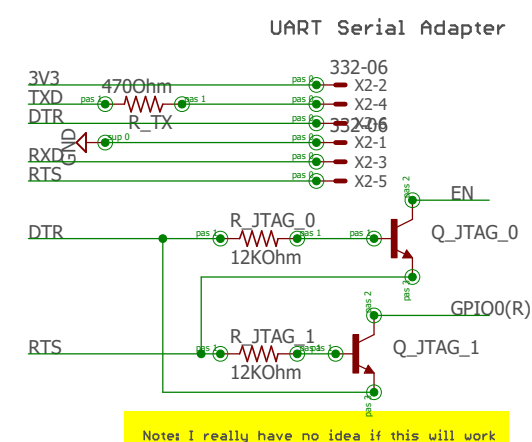
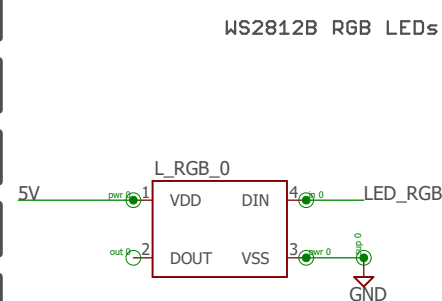


```
CURRENT SENSOR:
Linear Operation up to:
Usense = (Vin - 2)/100 = 30mV

Vout = 100 x Usense
Vout MAX = 4V @Vin=5V
Usense max = 40mV @Vin=5V

R SHUNT CALCULATION:
Usense = 40mV @Isense = 1A
Rshunt = Usense / Isense = 0.040R

Max Motor Current = 1.6A
Absolute max Dissipated = 500mW
Max Power dissipated by Rshunt = 100mW
```



MYO-HAND PROJECT  
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PCB Name: MYO\_ESPControlBoard\_Rev\_1

Designer: Pablo dMM (PablodMM.isp@gmail.com)

REV:  
1

Date: 08/02/2021 14:29