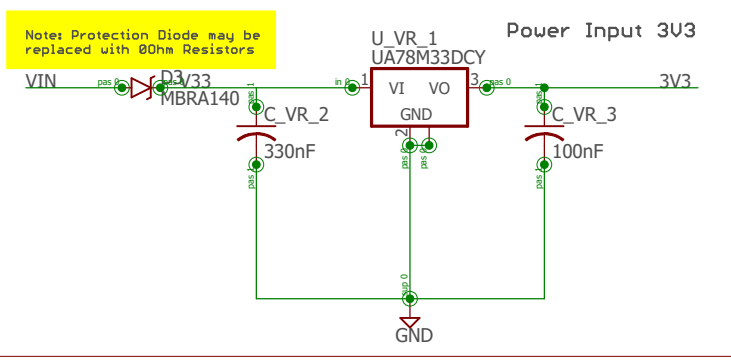
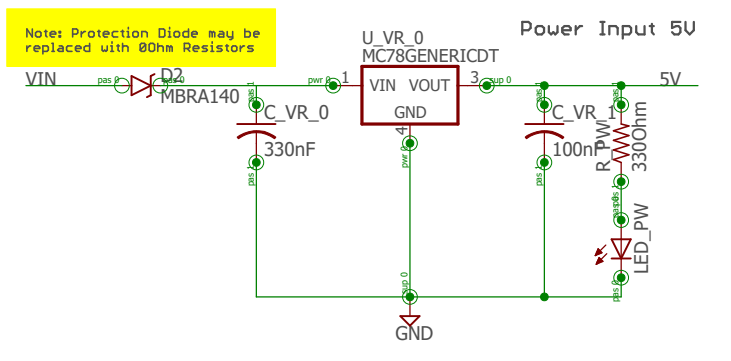
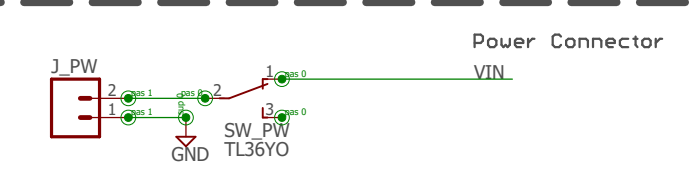
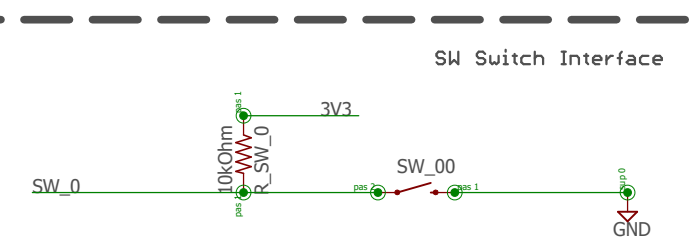
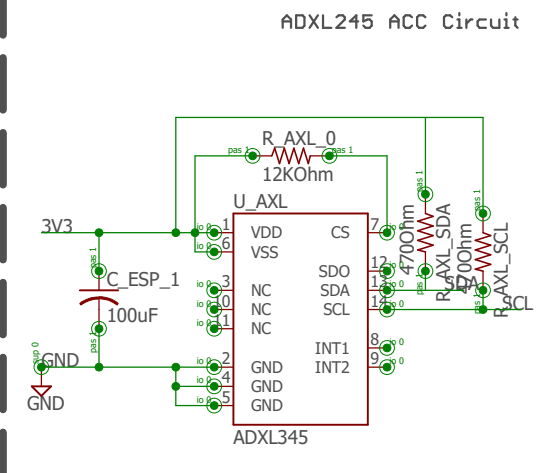
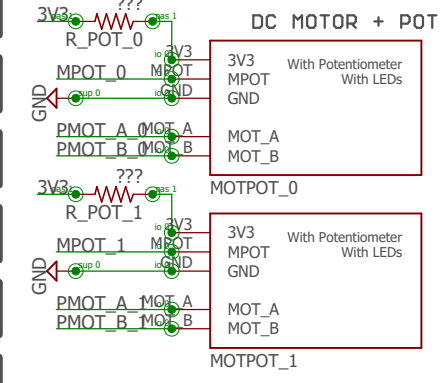
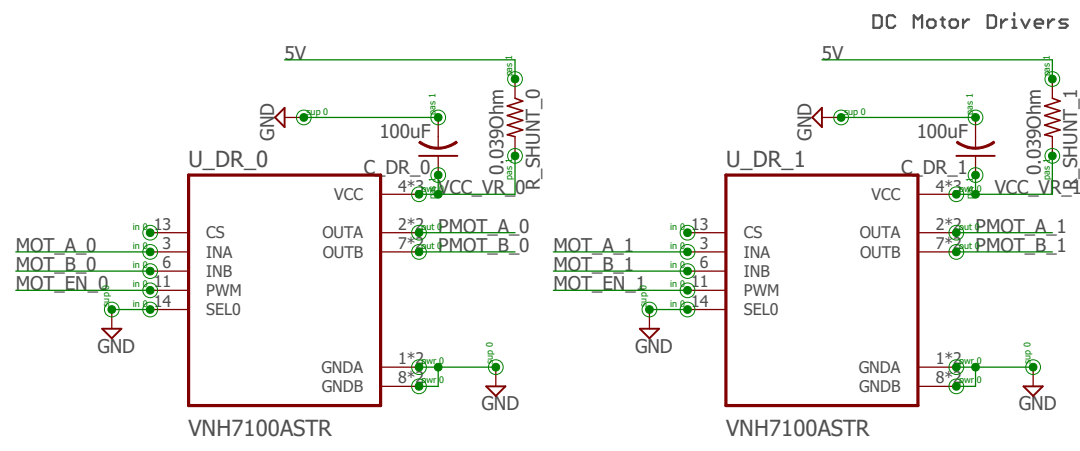


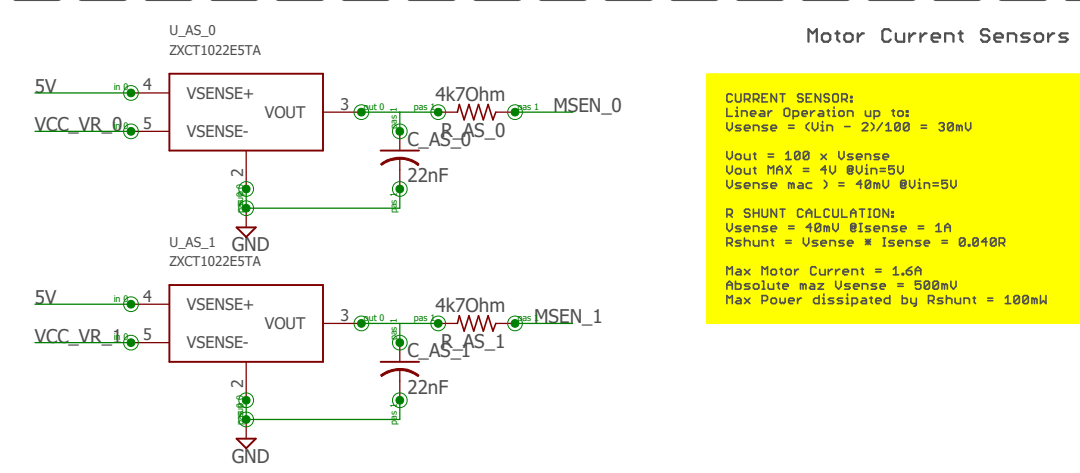
GPIO/PIN:	Signal:
GPIO4	MOT_EN_0
GPIO18	MOT_A_0
GPIO19	MOT_B_0
GPIO27	MPOT_0
GPIO5	MOT_EN_1
GPIO25	MOT_A_1
GPIO14	MOT_B_1
GPIO32	MPOT_1
GPIO12	MSEN_0
GPIO33	MSEN_1
GPIO17	LED_RGB
GPIO16	SW_0
GPIO21	SDA
GPIO22	SCL



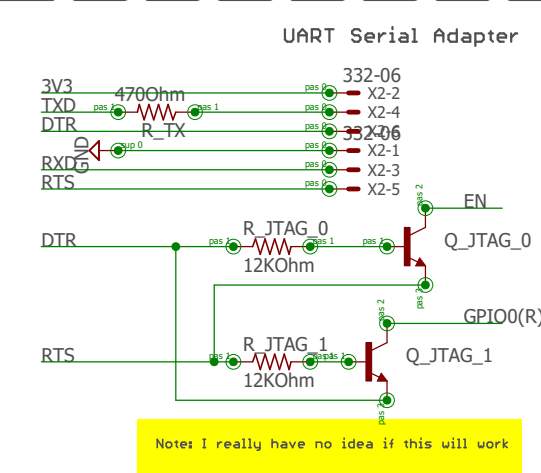
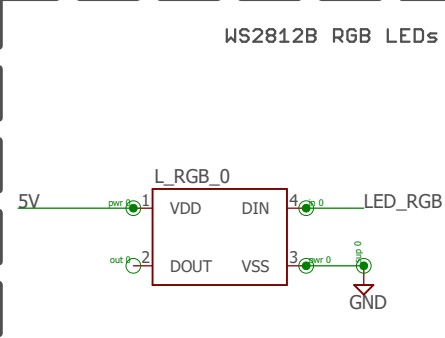
This Schematic is heavily based on:
https://dl.espressif.com/dl/schematics/ESP32-Core-Board-U2_sch.pdf



Note: The ACC circuit may not be mounted due to its footprint



CURRENT SENSOR:
 Linear Operation up to:
 $Usense = (Vin - 2)/100 = 30mV$
 $Vout = 100 \times Usense$
 $Vout\ MAX = 4V @ Vin=5V$
 $Usense\ max = 40mV @ Vin=5V$
 R SHUNT CALCULATION:
 $Usense = 40mV @ Isense = 1A$
 $Rshunt = Usense \times Isense = 0.040R$
 Max Motor Current = 1.6A
 Absolute max Usense = 500mV
 Max Power dissipated by Rshunt = 100mW



Note: I really have no idea if this will work

MYO-HAND PROJECT
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PCB Name: MYO_ESPControlBoard_Rev_1

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

Date: 19/02/2021 19:30

REV:
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