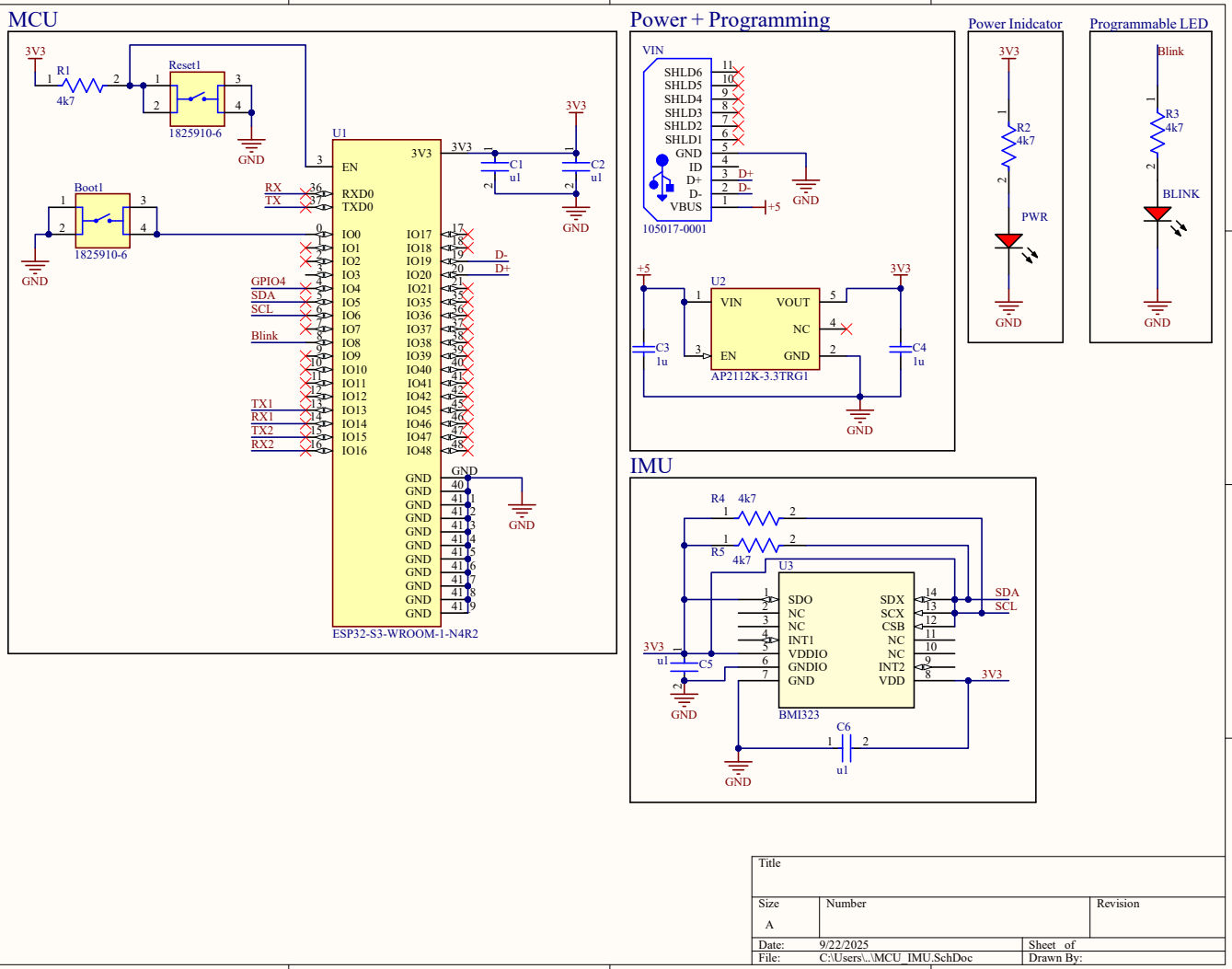
MCU
3V3
R1
4k7
Reset1
1825910-6
GND
Boot1
1825910-6
GND
U1
3V3
EN
RXD0
TXD0
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO16
IO17
IO18
IO19
IO20
IO21
IO35
IO36
IO37
IO38
IO39
IO40
IO41
IO42
IO45
IO46
IO47
IO48
GND
ESP32-S3-WROOM-1-N4R2
RX
TX
GPIO4
SDA
SCL
Blink
TX1
RX1
TX2
RX2
D-
D+
C1
u1
C2
u1
Power + Programming
VIN
SHLD6
SHLD5
SHLD4
SHLD3
SHLD2
SHLD1
GND
ID
D+
D-
VBUS
105017-0001
+5
U2
VIN
VOUT
NC
EN
GND
AP2112K-3.3TRG1
C3
1u
C4
1u
Power Inidcator
R2
4k7
PWR
Programmable LED
Blink
R3
4k7
BLINK
IMU
R4
4k7
R5
4k7
U3
SDO
NC
NC
INT1
VDDIO
GNDIO
GND
SDX
SCX
CSB
NC
NC
INT2
VDD
BMI323
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C5
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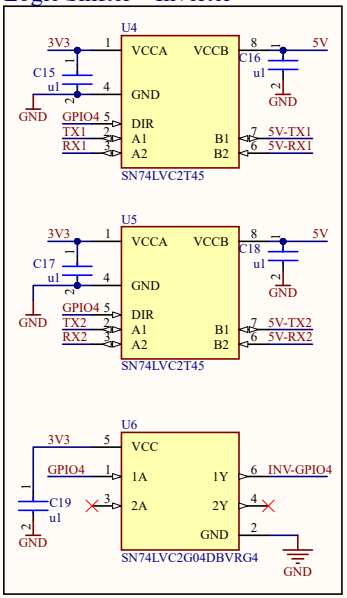
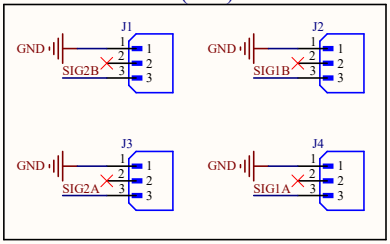
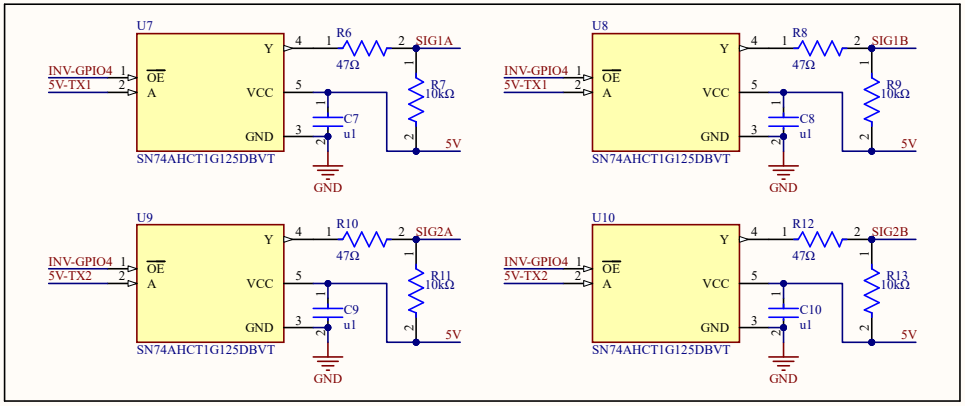
Logic Shifter + Inverter



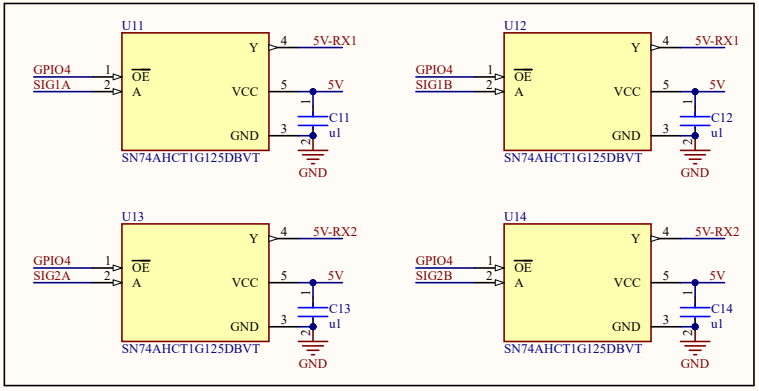
Servo Connectors (SIG)



TX Gate Buffers



RX Gate Buffers



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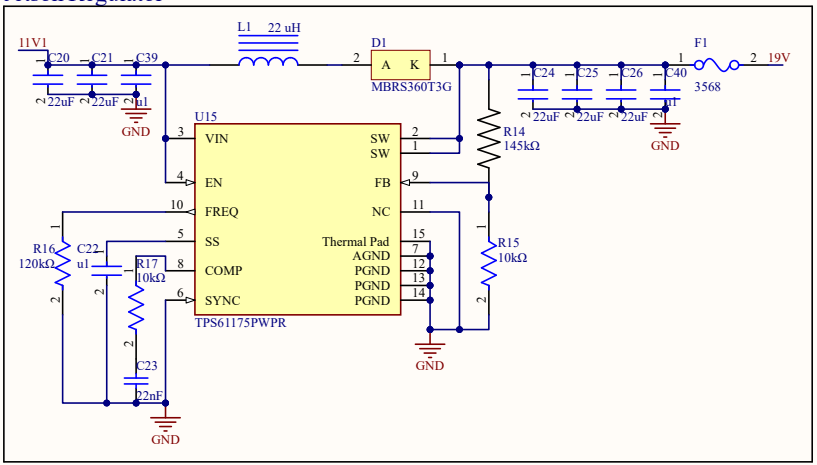
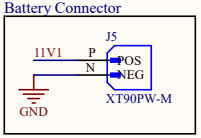
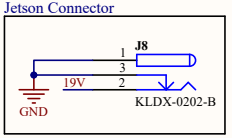
Jetson Regulator



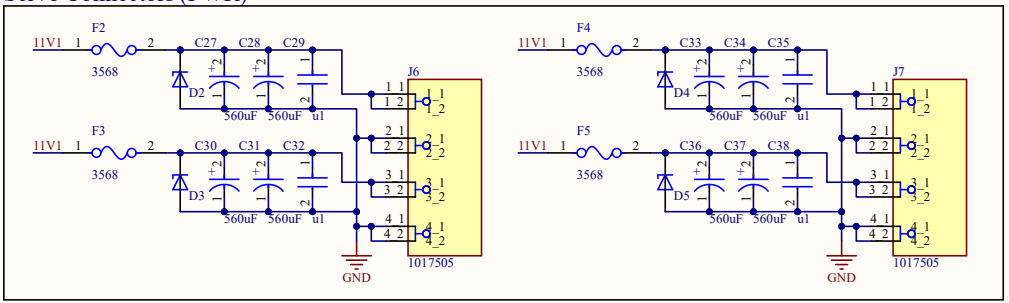
Battery Connector



Jetson Connector



Servo Connectors (PWR)



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