

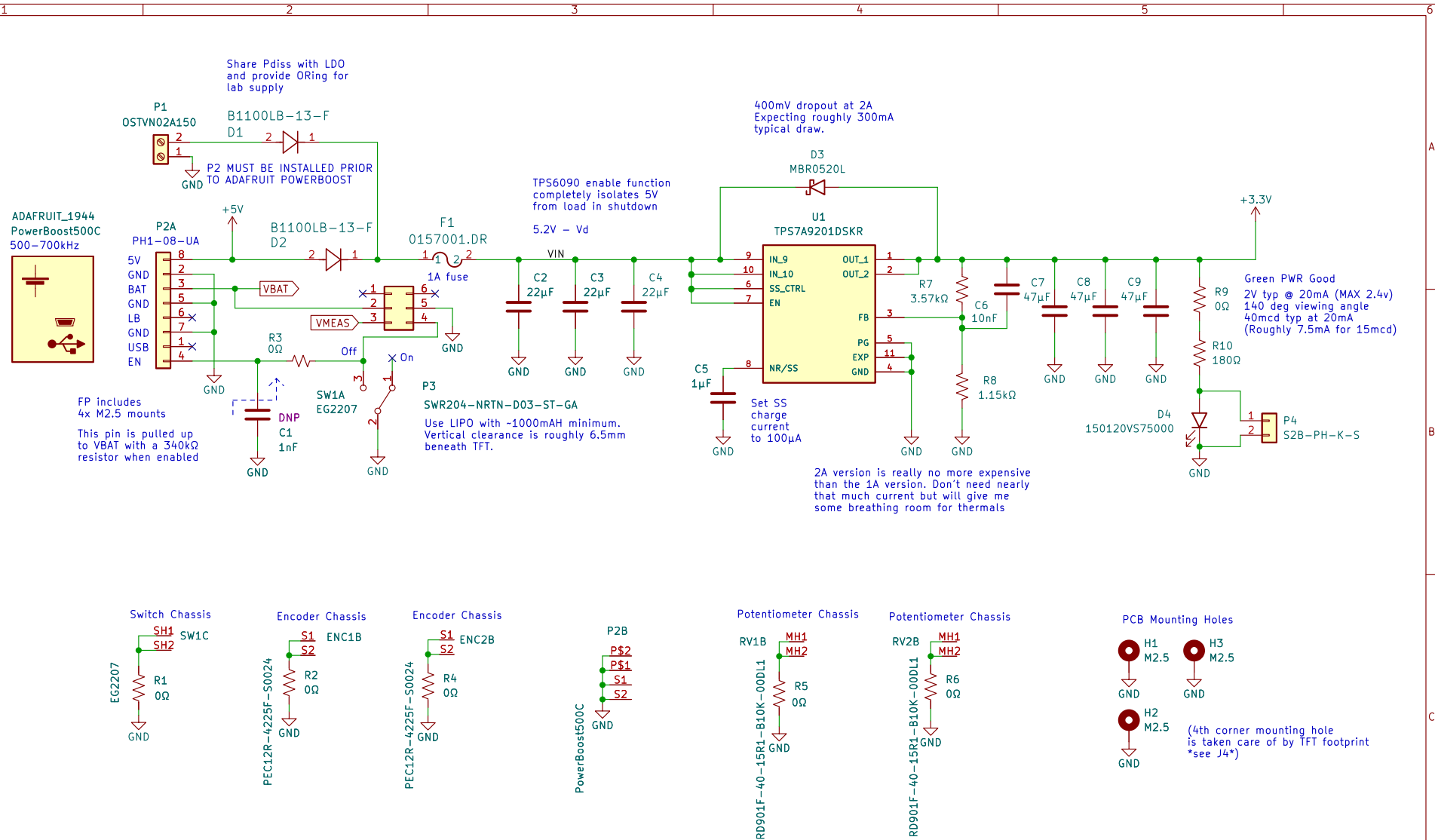
	1	2	3	4	5	6
A	<div>Power</div> <div>File: remote_Power.kicad_sch</div>					
B	<div>Digital</div> <div>File: remote_Digital.kicad_sch</div>					
C	<div>Analog</div> <div>File: remote_Analog.kicad_sch</div>					
D	<div></div> <div>Sheet: / File: Ultrasonic Sound Steering – Remote Rev. B.kicad_sch</div> <div><div>Title:</div><div>Size: A4Date:KiCad E.D.A. kicad (6.0.11)</div><div>Rev:Id: 1/4</div></div>					
	1	2	3	4	5	6

Ultrasonic Sound Steering Capstone

Remote PCB Master Sheet

K. Harper 03/06/2024

# Remote PCB - POWER



Sheet: /Power/  
File: remote\_Power.kicad\_sch

## Title:

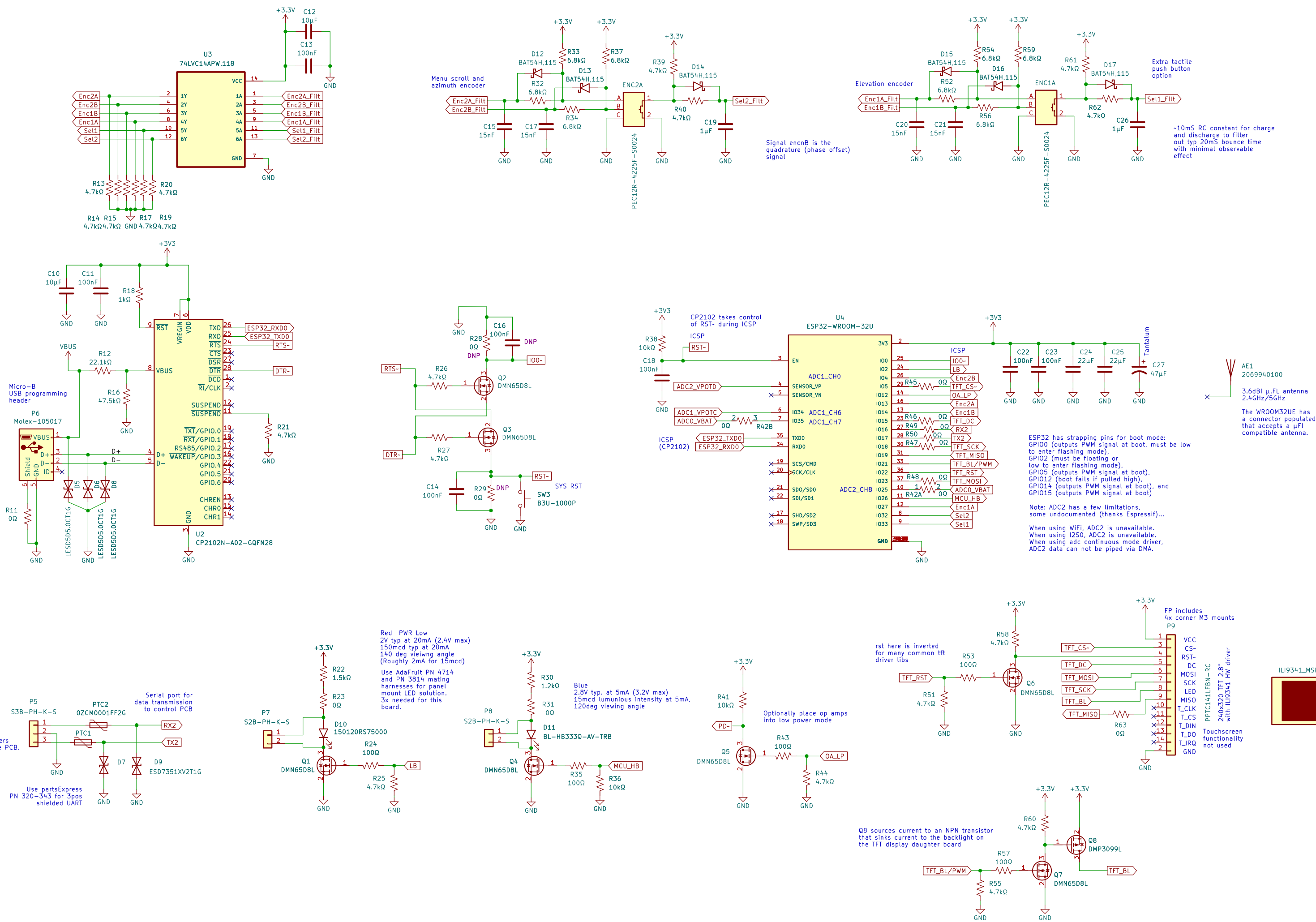
Size: A4  
KiCad E.D.A. kicad (6.0.11)

Date:

Rev:

Id: 2/4

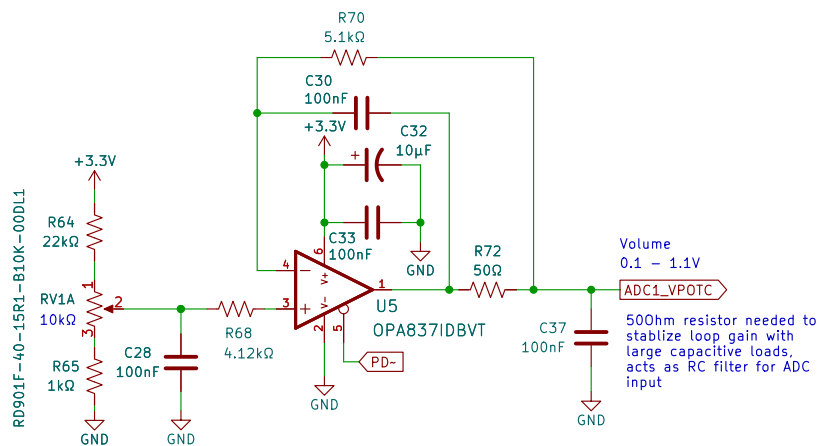
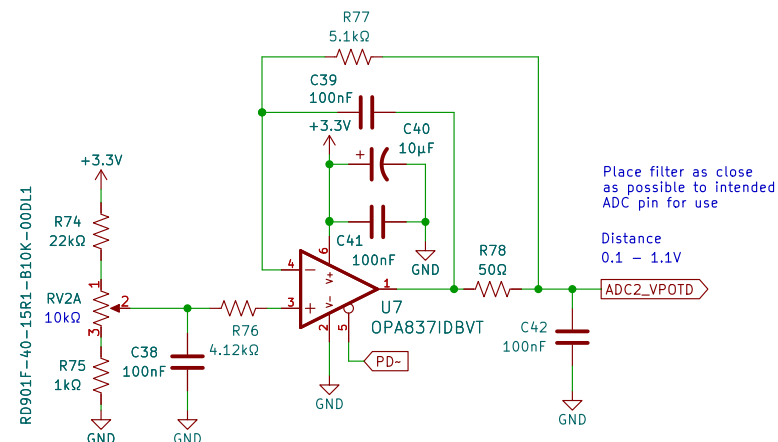
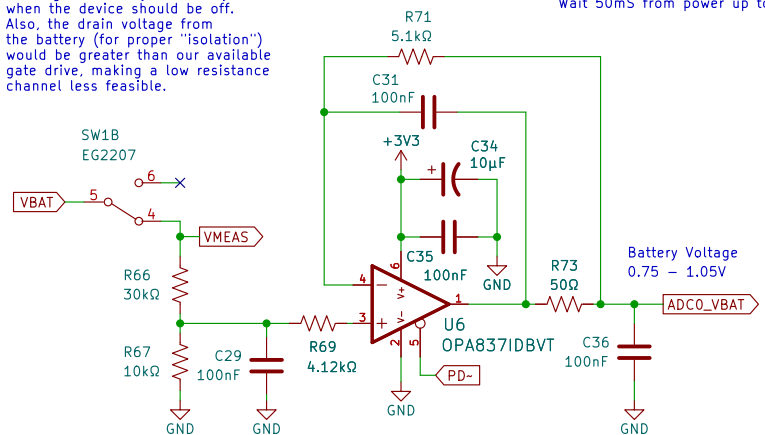
# Remote PCB – DIGITAL



# Remote PCB - ANALOG

Considered transistor load switch with autobiasing (pullup) here, although did not want to run the risk of a shorted transistor causing the battery to run dry when the device should be off. Also, the drain voltage from the battery (for proper "isolation") would be greater than our available gate drive, making a low resistance channel less feasible.

ADC accepts max 1.1V with 0dB digital attenuation  
Keep ADC sample rate < 1kHz  
Wait 50mS from power up to measure



Sheet: /Analog/  
File: remote\_Analog.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.11)

Date:

**Rev:**

Id: 4/4