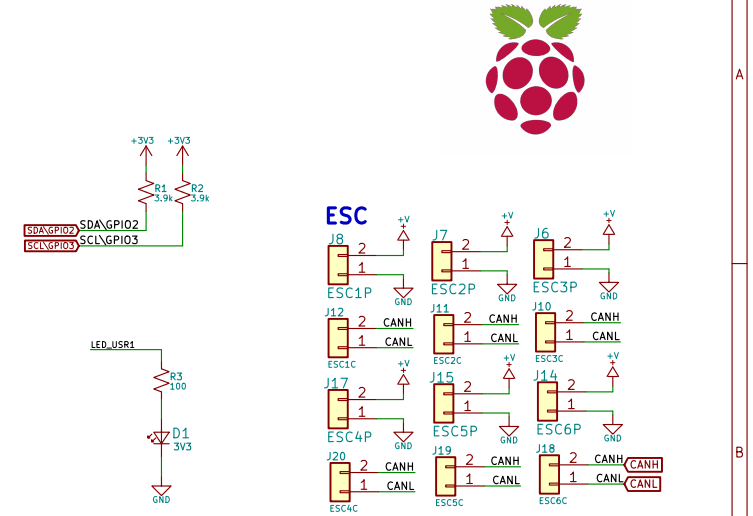
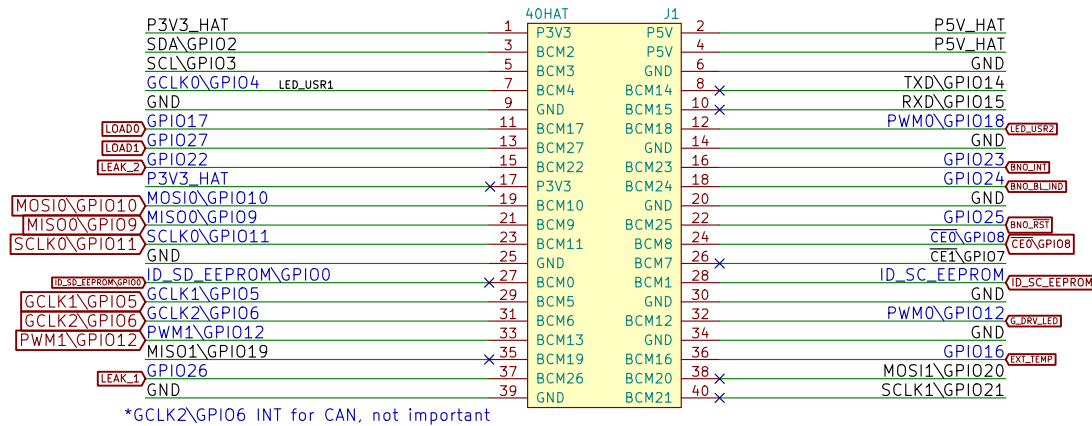


AUV Pi Expansion

40-Pin HAT Connectors



Sheet: Sensors

Sensors

File: Sensors.sch

Sheet: Power

Power

File: Power.sch

Sheet: Interface

Interface

File: Interface.sch

Sheet: POE

"POE"

File: POE.sch

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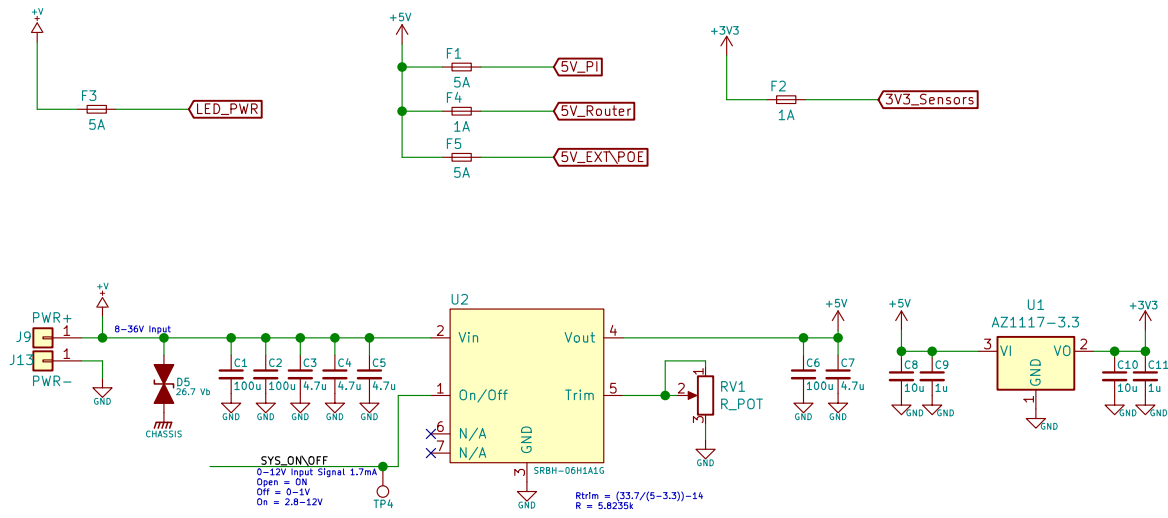
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Date: 2020-07-07

Drawn By: Mitchell Stride

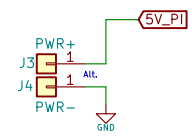
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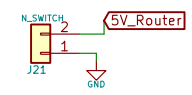


Ideal Pin 10.5/11-19/20V so like 10-20V
 5V Buck
 Pi43A(Conn),PiZero1Ax3(RJ45),Router.5A(microUSB)
 $5-6.5A = 25-32.5W$
 179-SRBH-06H1A1G-ND

5V to Pi



5V to Router

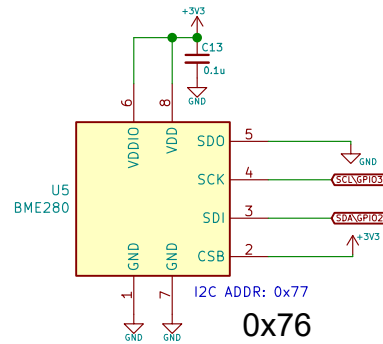
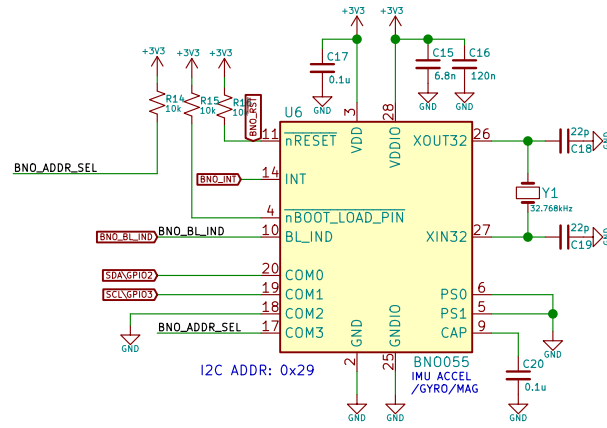


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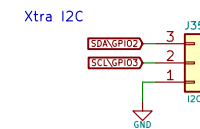
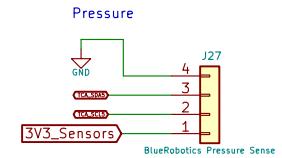
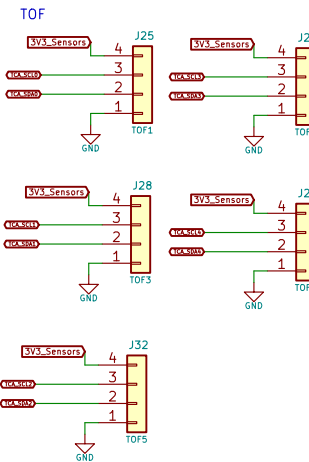
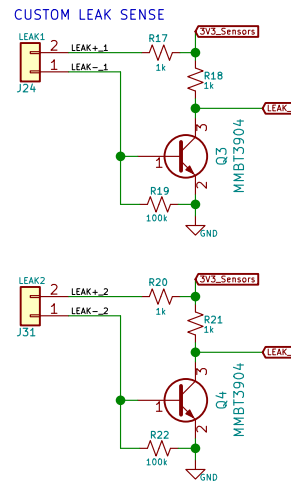
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Title:		
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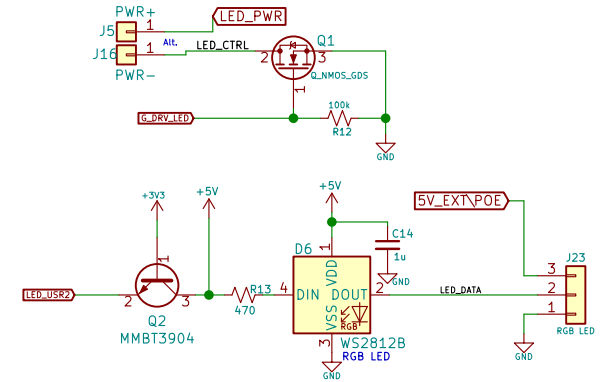
Peripherals



Sensors



LED Control



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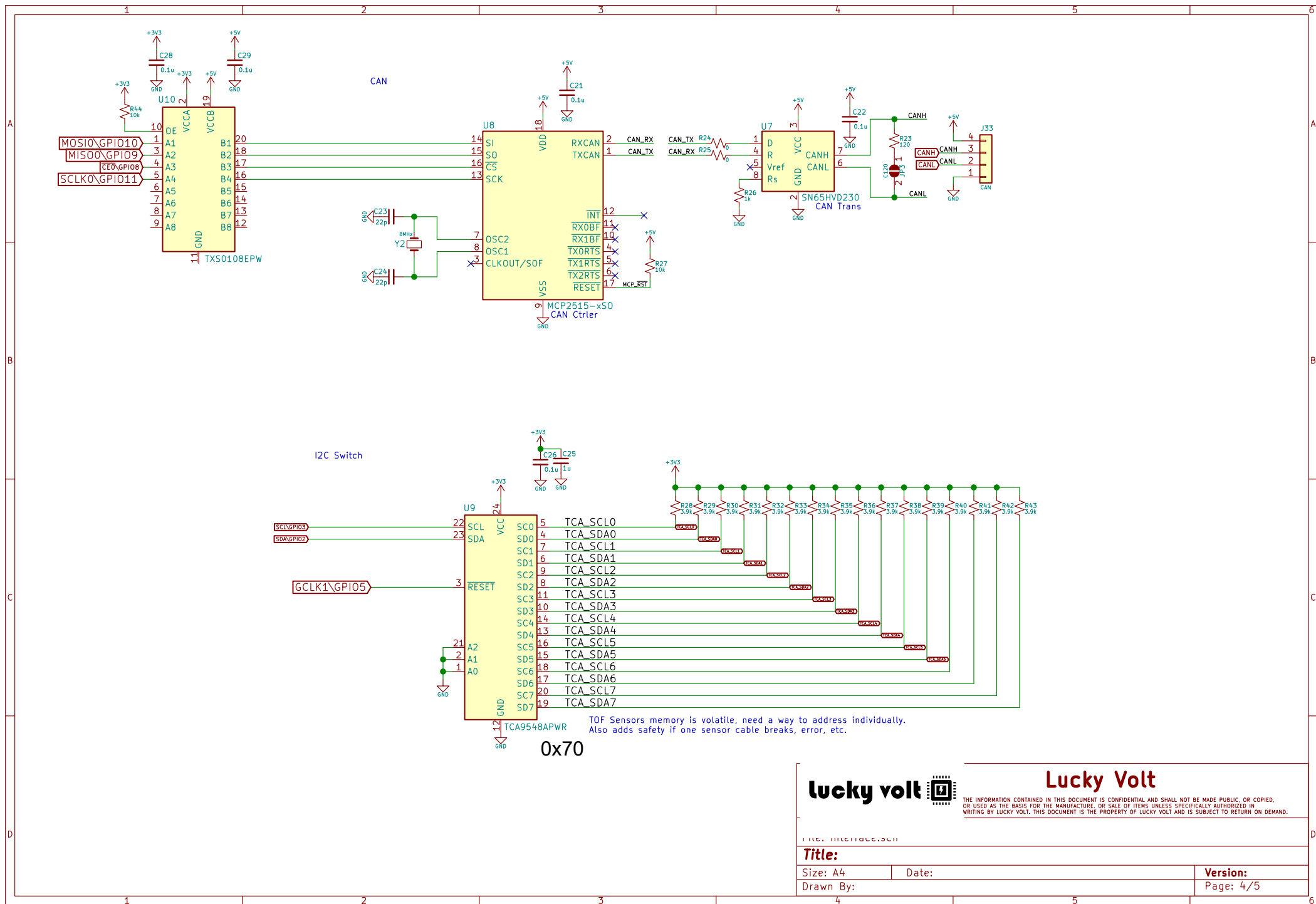
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0x70

TOF Sensors memory is volatile, need a way to address individually.
Also adds safety if one sensor cable breaks, error, etc.

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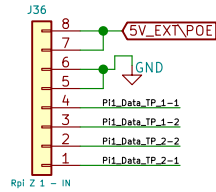
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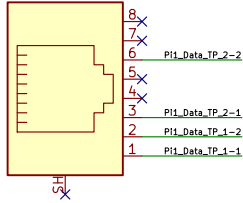
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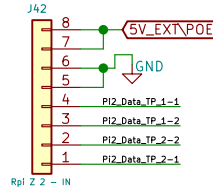
Pi Zero Cam Module 1



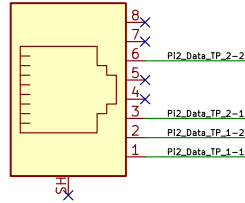
J37 Rpi Z 1 - OUT SWITCH



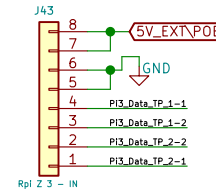
Pi Zero Cam Module 2



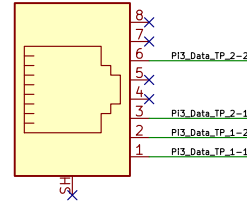
J38 Rpi Z 2 - OUT SWITCH



Pi Zero Cam Module 3



J39 Rpi Z 3 - OUT SWITCH



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THE FOLLOWING

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