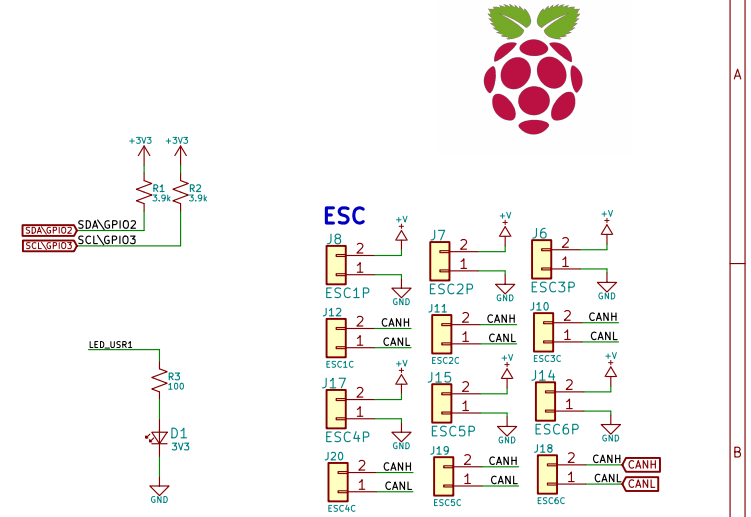
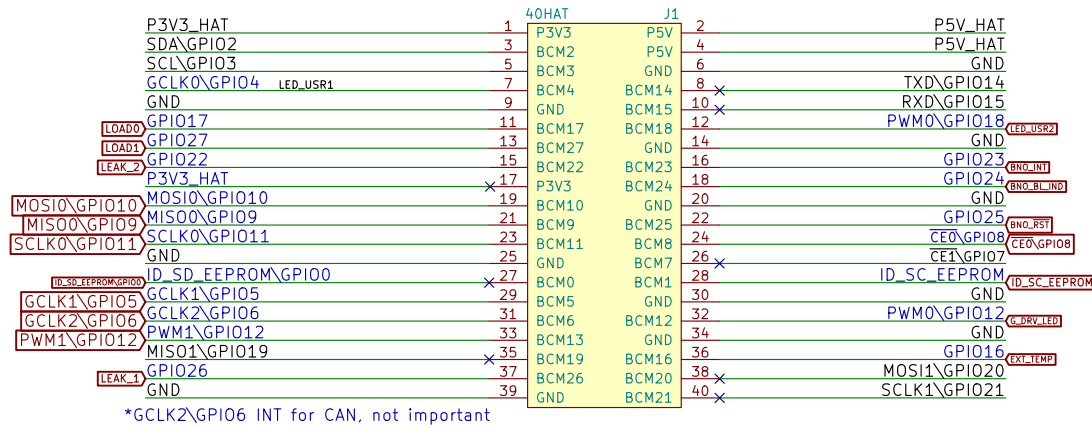


# AUV Pi Expansion

## 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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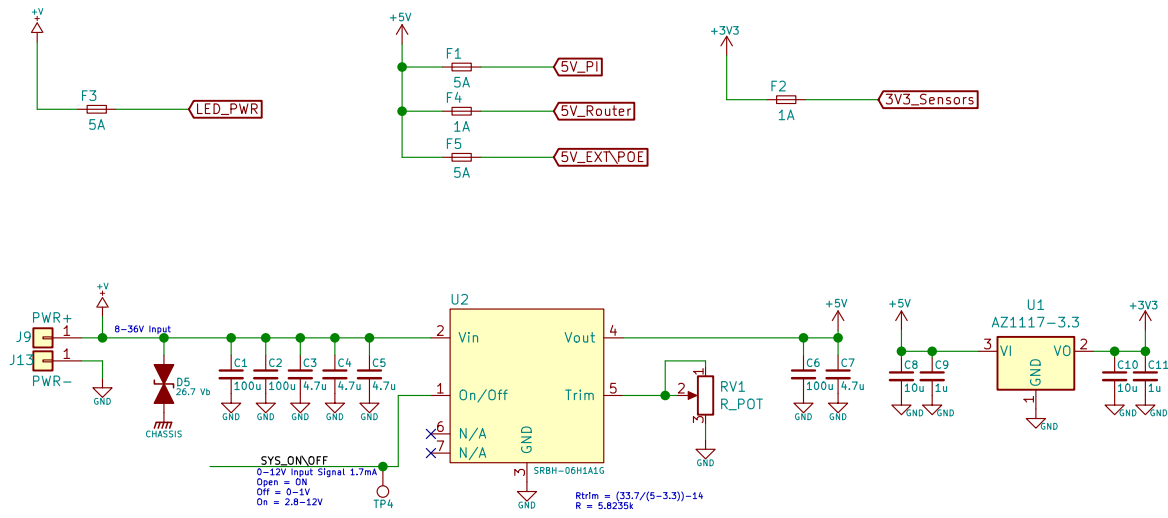
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Size: A4 Date: 2020-07-07

Drawn By: Mitchell Stride

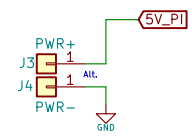
Version: V1.0

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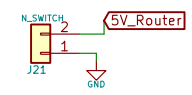


Ideal Pin 10.5/11-19/20V so like 10-20V  
 5V Buck  
 Pi43A(Conn),PiZero1Ax3(RJ45),Router.5A(microUSB)  
 5-6.5A = 25-32.5W  
 179-SRBH-06H1A1G-ND

### 5V to Pi



### 5V to Router



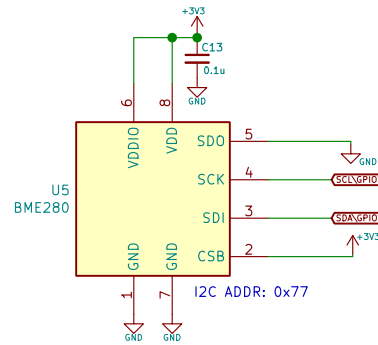
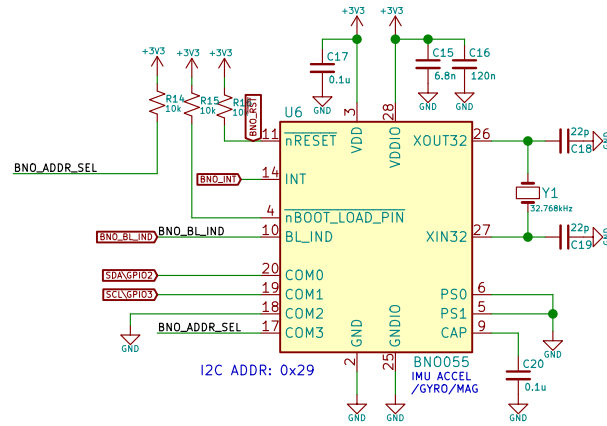
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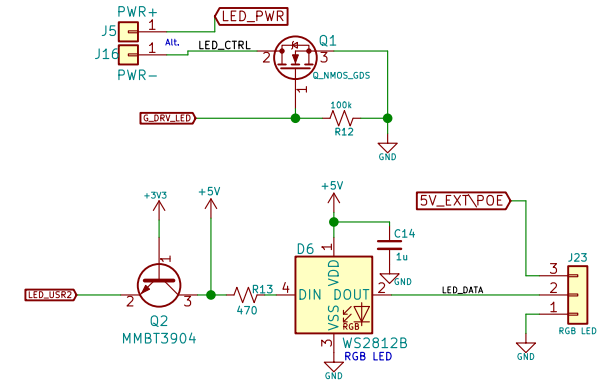
THE POWER SUPPLY

<b>Title:</b>		
Size: A4	Date:	<b>Version:</b>
Drawn By:		Page: 2/5

## Peripherals

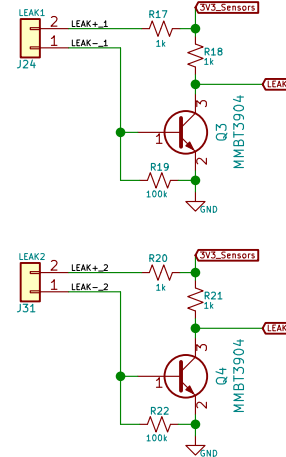


## LED Control

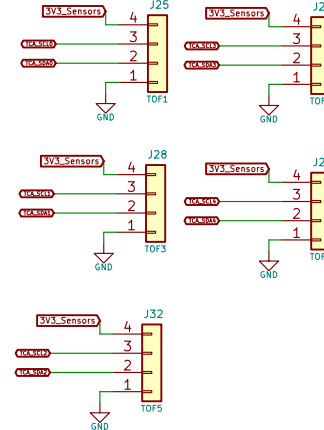


## Sensors

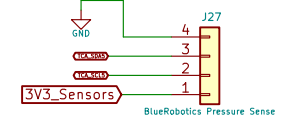
### CUSTOM LEAK SENSE



### TOF



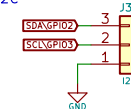
### Pressure



### Xtra GPIO



### Xtra I2C



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FILE: SENSORS.SCH

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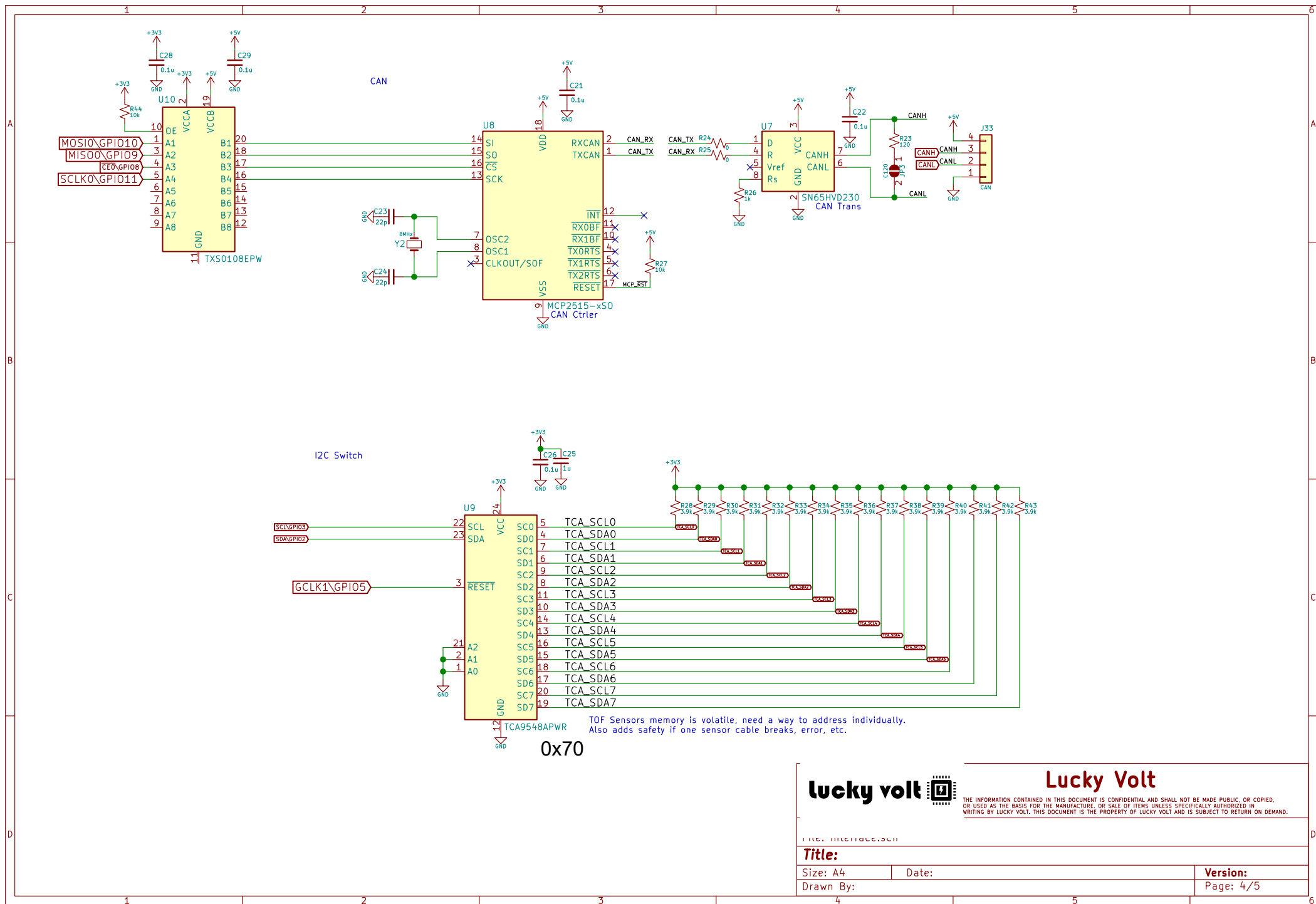
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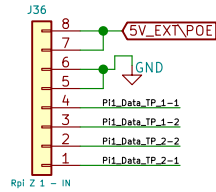
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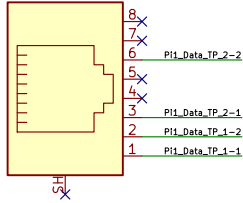
Version:

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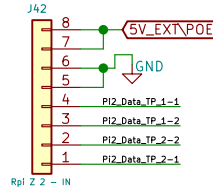
Pi Zero Cam Module 1



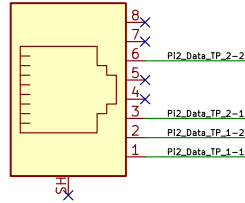
J37 Rpi Z 1 - OUT SWITCH



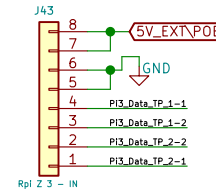
Pi Zero Cam Module 2



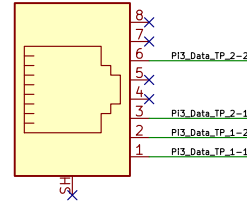
J38 Rpi Z 2 - OUT SWITCH



Pi Zero Cam Module 3



J39 Rpi Z 3 - OUT SWITCH



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THE FOLLOWING

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