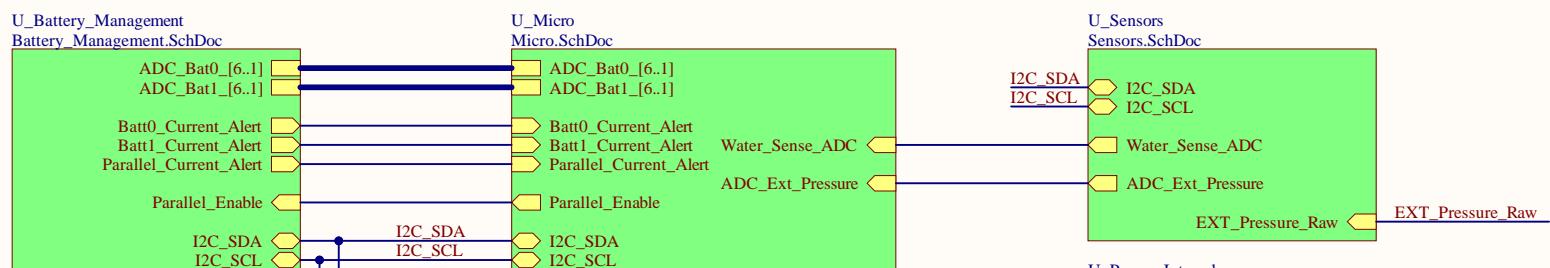
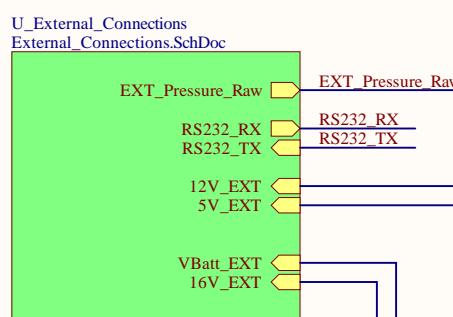


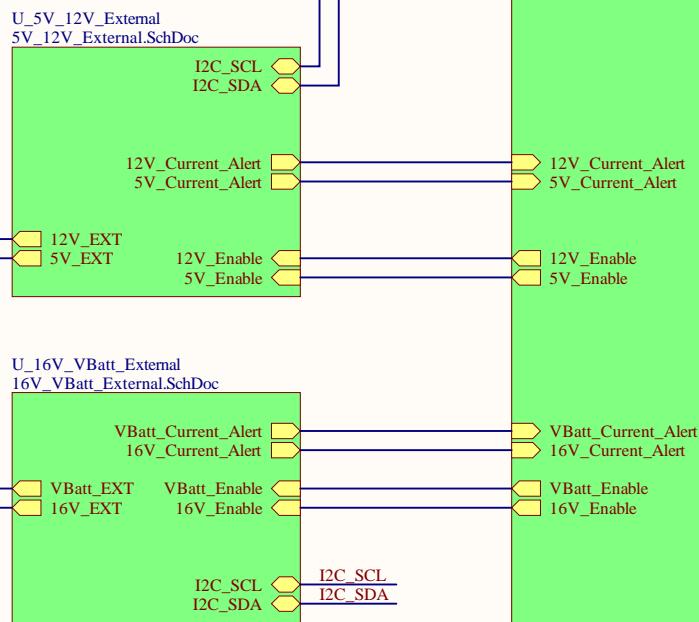
A



B



C



D

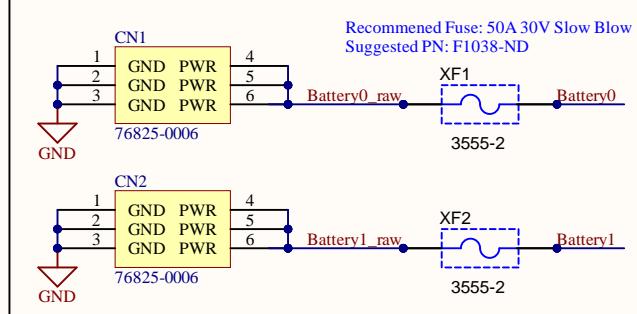
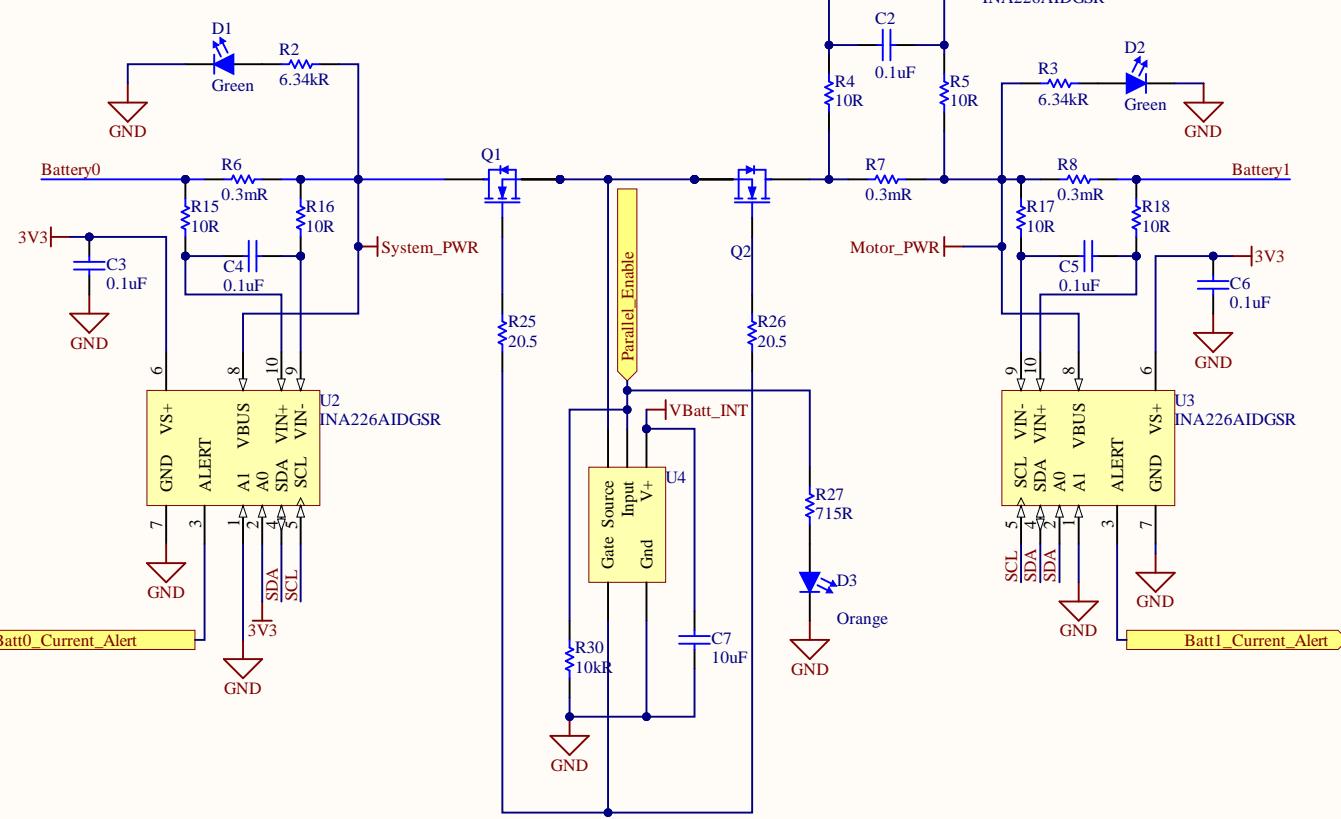
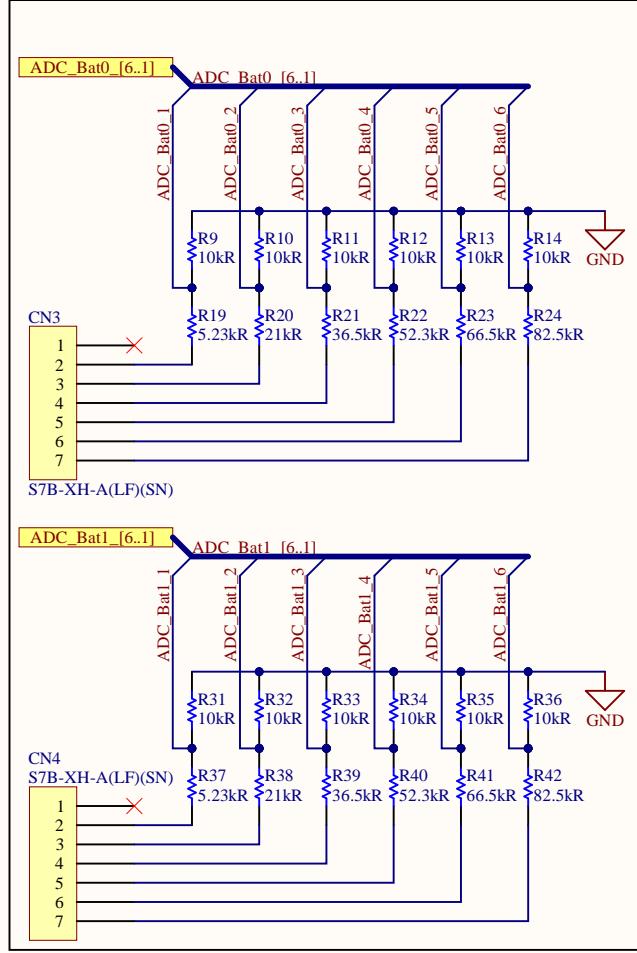
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Size	Number	Revision
A4		
Date: File:	7-12-2022 C:\Users\.\Master.SchDoc	Sheet of Drawn By:

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Battery Input Terminal and Fuse, Input Voltage Range 18V to 28V

Battery Current Monitor, Battery Bridge

Battery Cell Voltage Monitor


Title

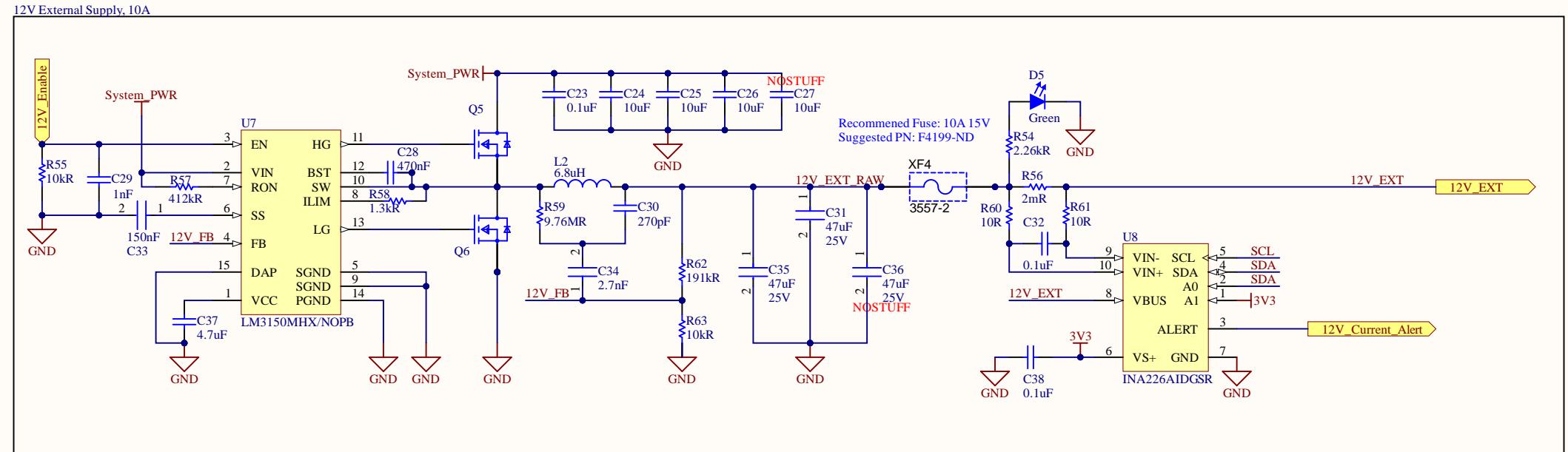
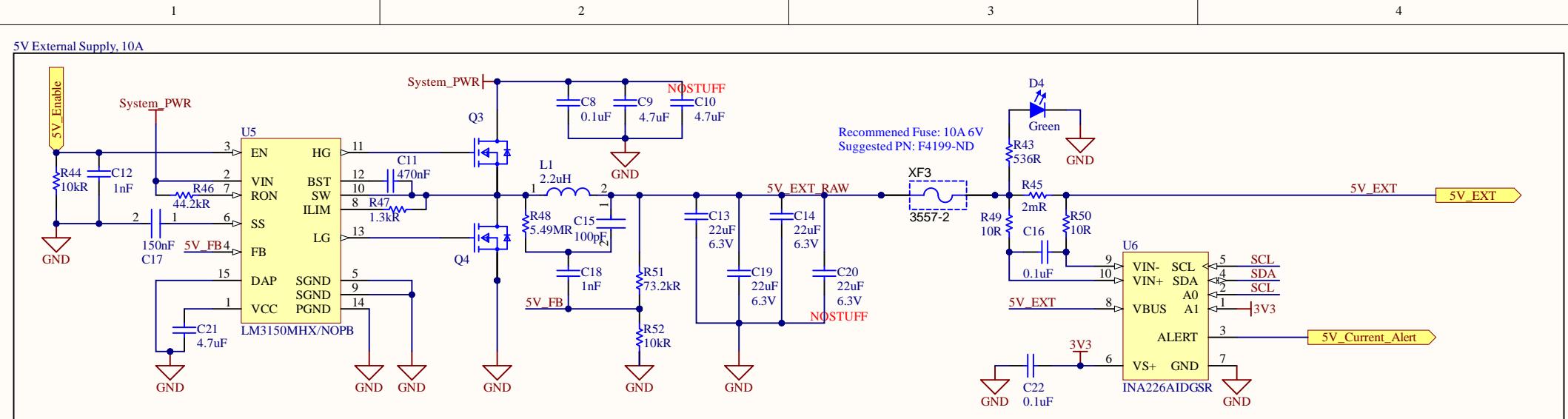
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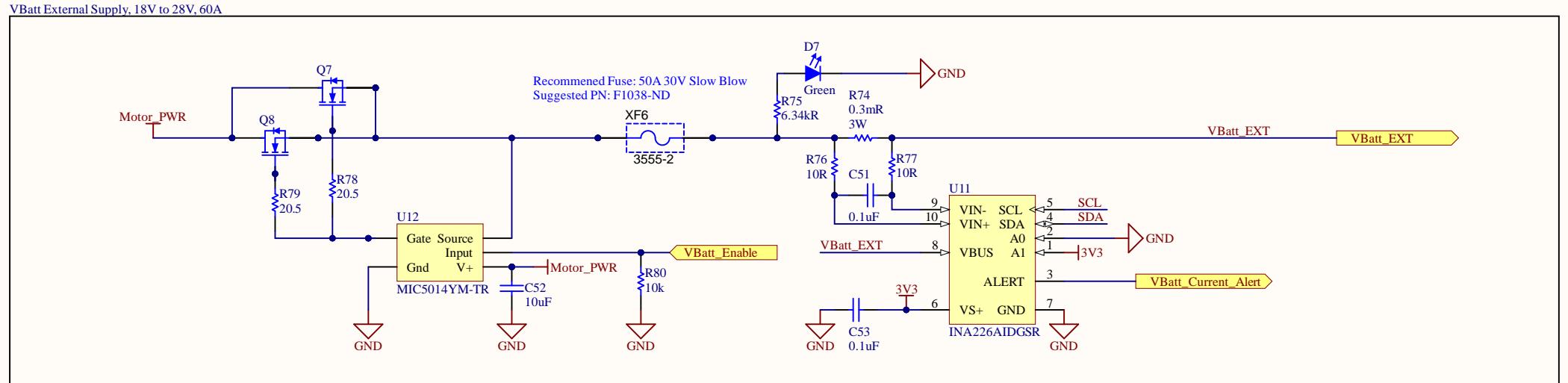
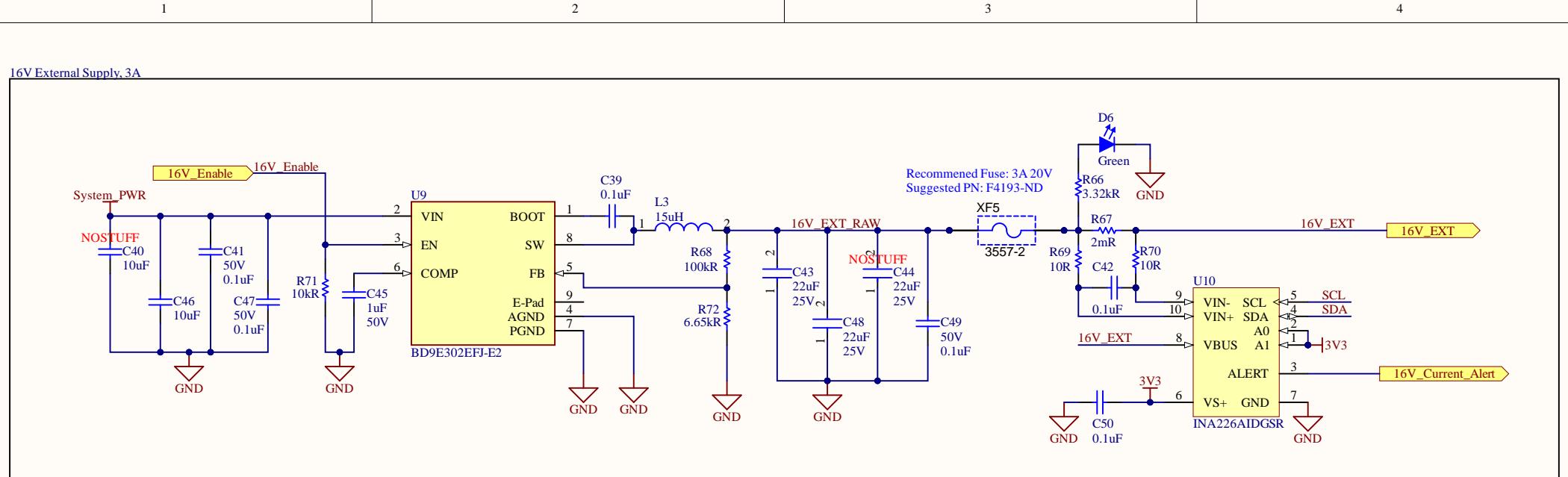
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SCL
SDA

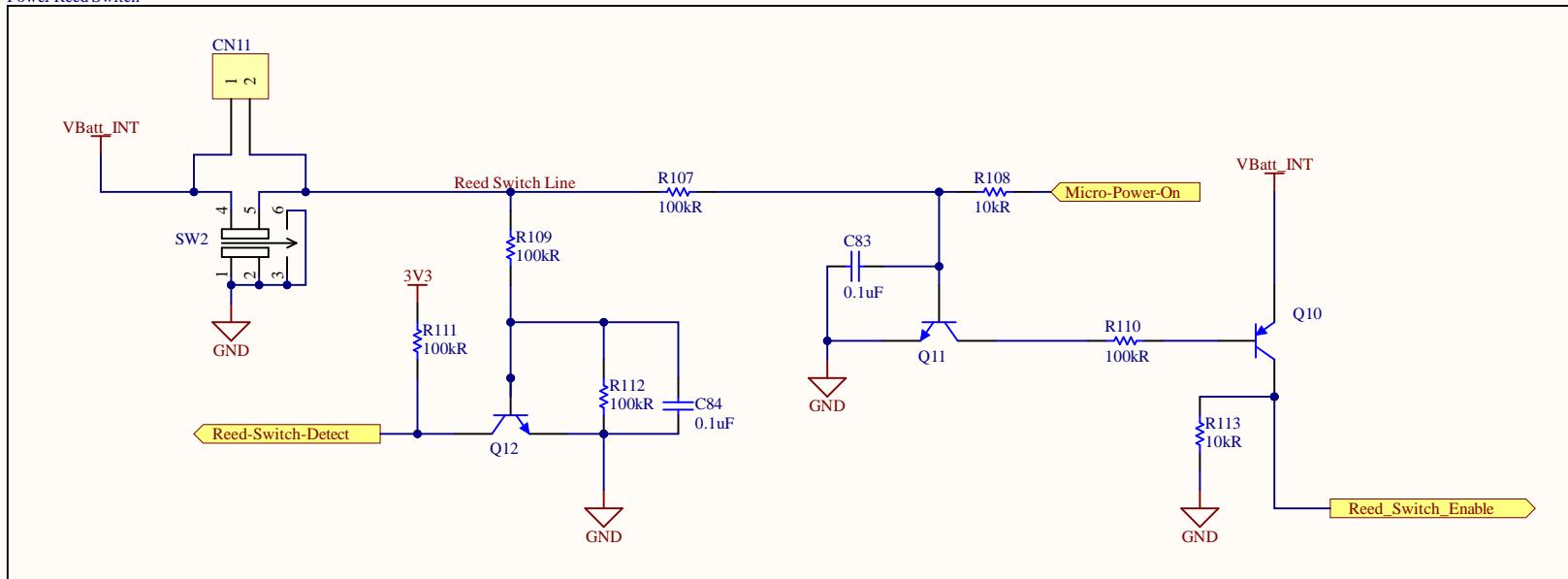
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File:	C:\Users\.\5V 12V External.SchDoc	Drawn By: Poorna Chander Kalidas



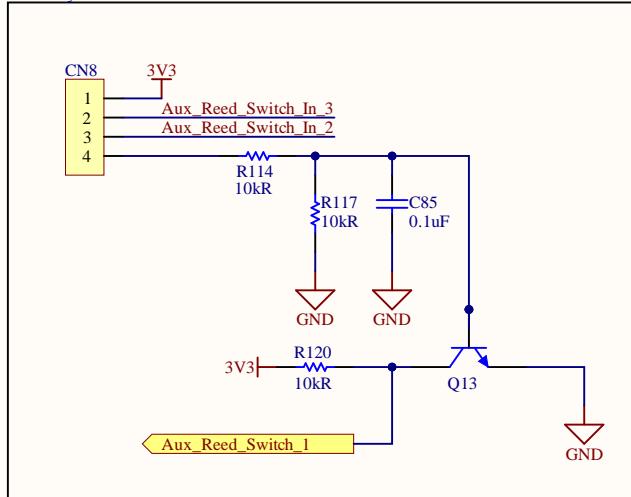
I₂C_SCL SCL
I₂C_SDA SDA

Title		
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Date:	7-12-2022	Sheet of
File:	C:\Users\..\116V VBatt External.SchDoc	Drawn By: Poorna Chander Kalidas

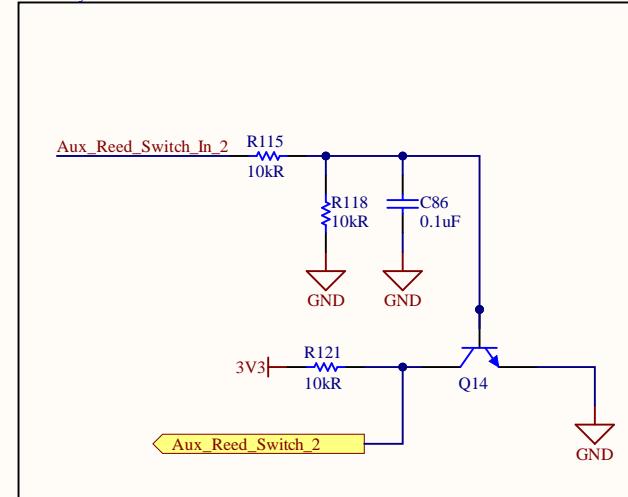
Power Reed Switch



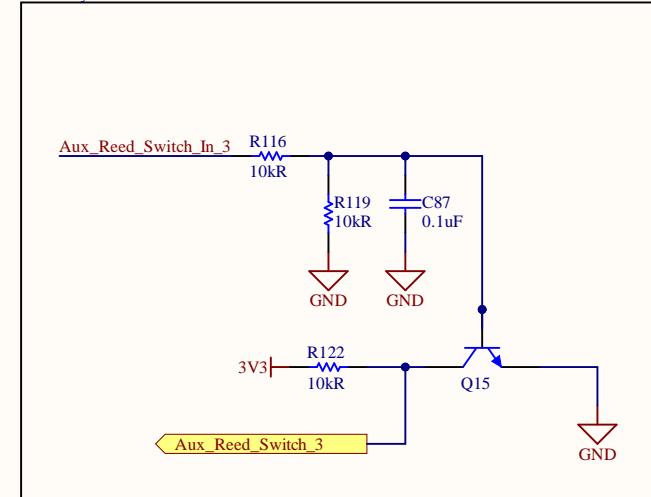
Auxiliary Reed Switch 1



Auxiliary Reed Switch 2

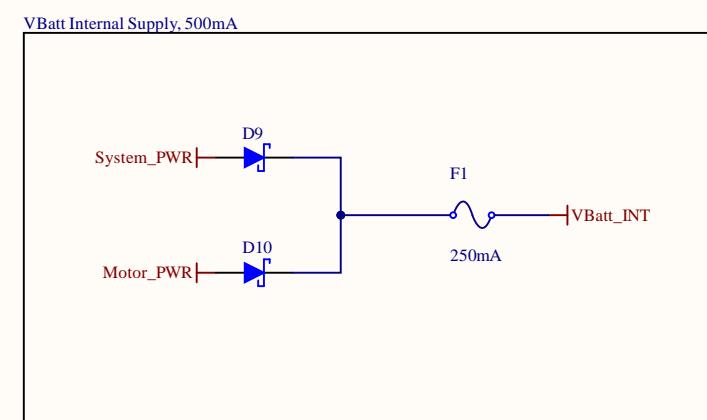
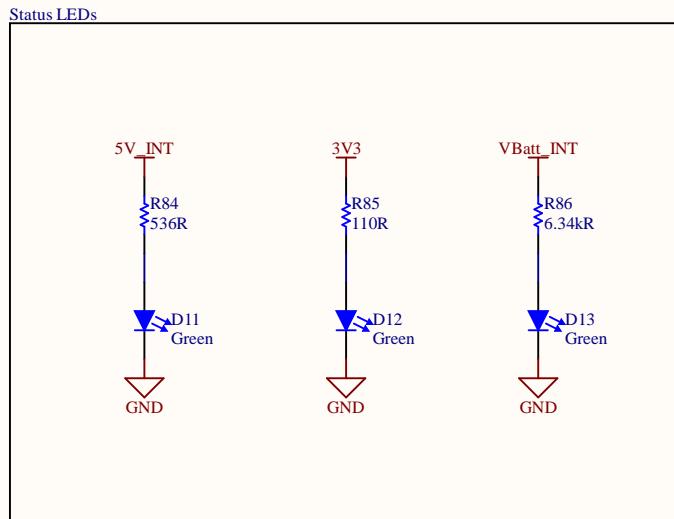
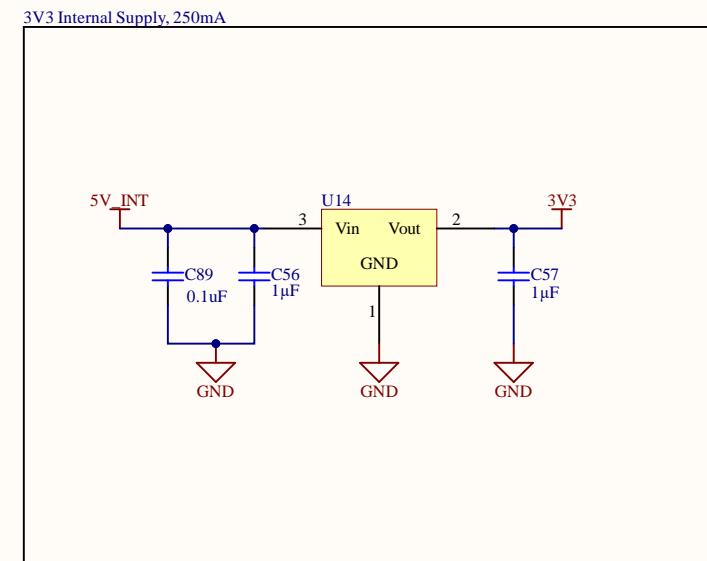
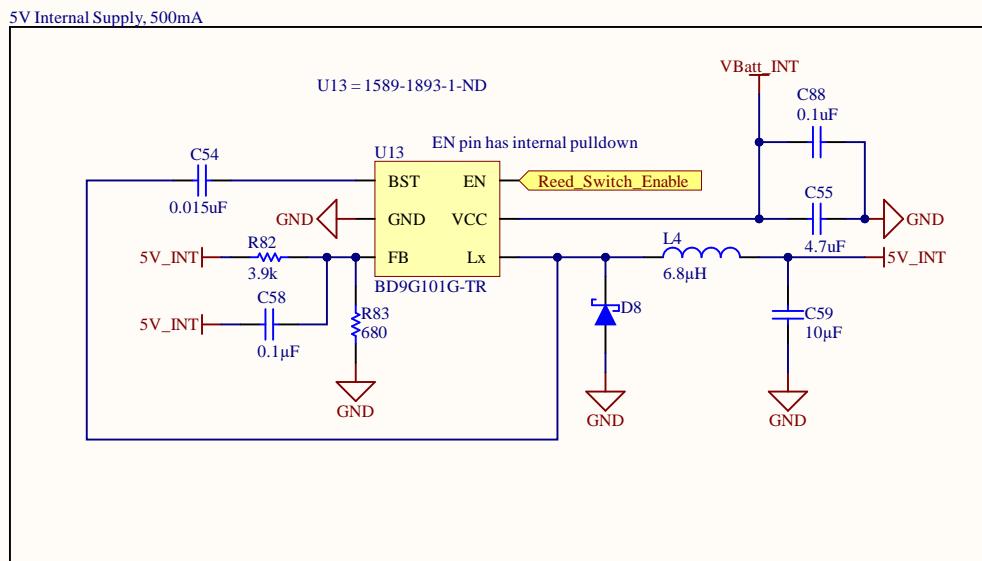


Auxiliary Reed Switch 3

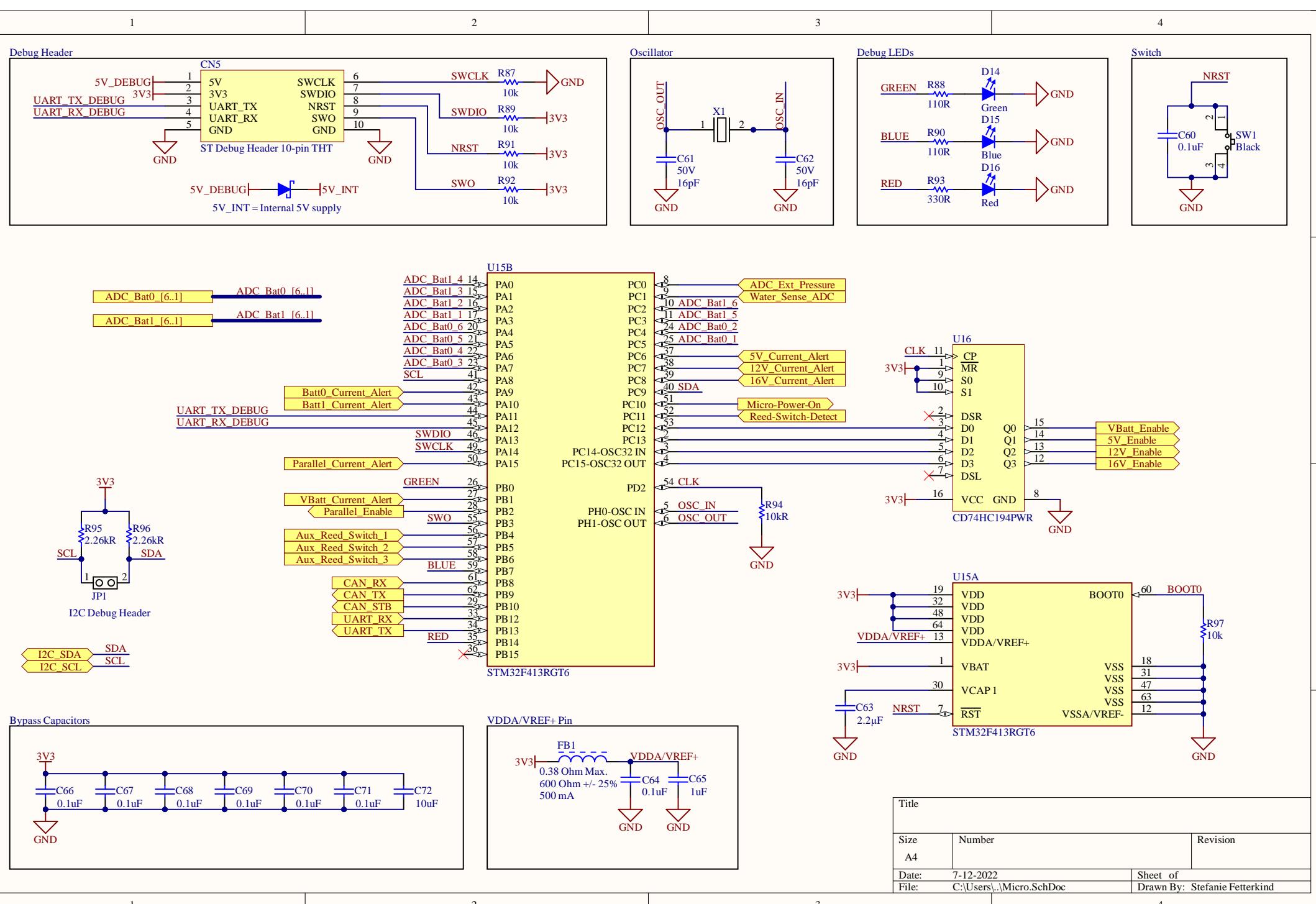


Title

Size	Number	Revision
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Date: 7-12-2022	Sheet of	
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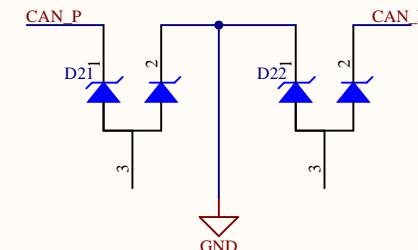
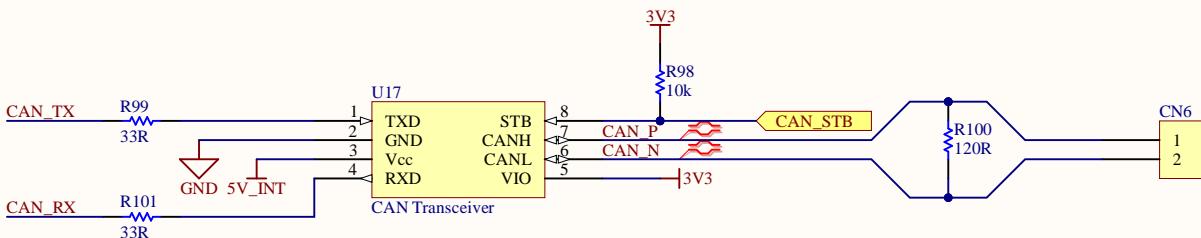


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Size A4	Number	Revision
Date:	7-12-2022	Sheet of
File:	C:\Users\...\Power Internal.SchDoc	Drawn By: Poorna Chander Kalidas



Title		
Size A4	Number	Revision
Date:	7-12-2022	Sheet of
File:	C:\Users\.\Micro.SchDoc	Drawn By: Stefanie Fetterkind

CAN Tranceiver

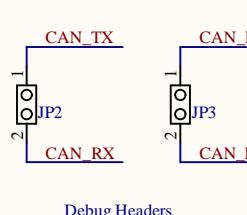
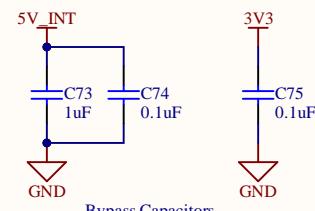


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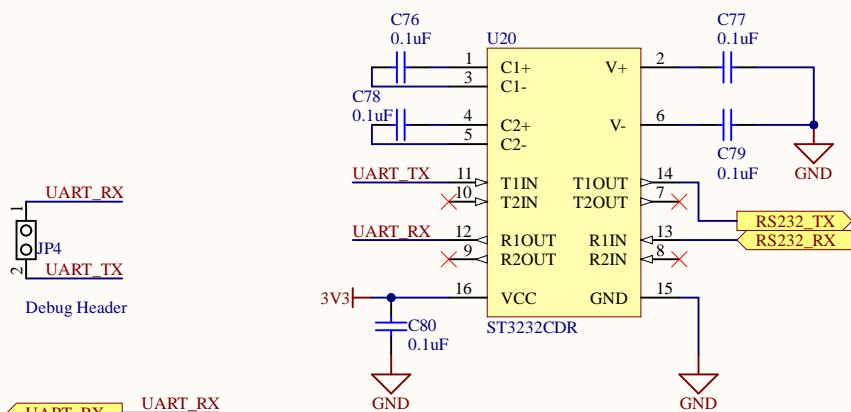
A

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B



RS232 Tranceiver



C

C

D

D

Title

Size

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Number

Revision

Date: 7-12-2022

Sheet of

File: C:\Users\..\Communications.SchDoc

Drawn By: Stefanie Fetterkind

1

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Water Sensor

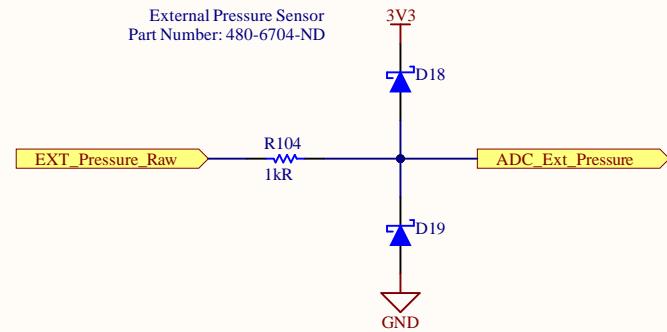
4 External water sensors in parallel

CN7
2 1
1x2 Shrouded Right Angle

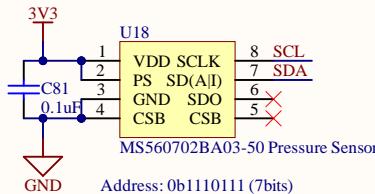
The circuit shows four parallel connections from four external water sensors (labeled 1 through 4) to a Water_Sense_ADC. Each connection consists of a sensor lead, a 100kΩ pull-up resistor (R102), and a ground connection. The Water_Sense_ADC is connected to 3V3 power and ground.

External Pressure Sensor

External Pressure Sensor
Part Number: 480-6704-ND

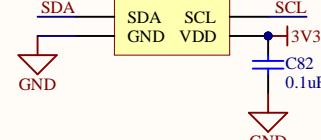


Internal Pressure Sensor (Housing Pressure)



Internal Pressure Sensor (Housing Pressure)

Address: 0b1000000 (7bits)



I2C_SCL — SCL
I2C_SDA — SDA

Title

Size	Number	Revision
A4		
Date:	7-12-2022	Sheet of
File:	C:\Users\..\Sensors.SchDoc	Drawn By: Jessica Jiang

1

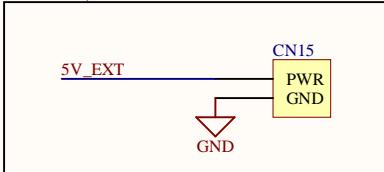
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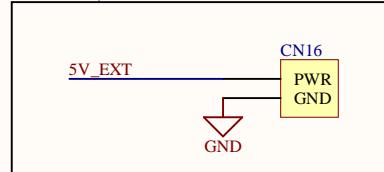
4

5V

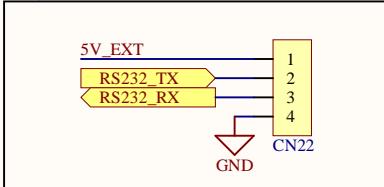
LCD Board, 5V @ 4A



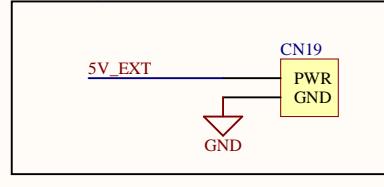
Unallocated, 5V



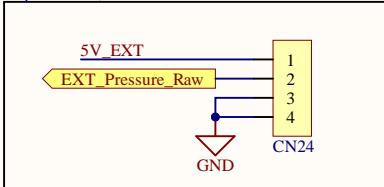
IMU, 5V @ 500mA



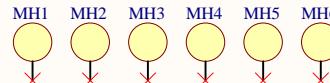
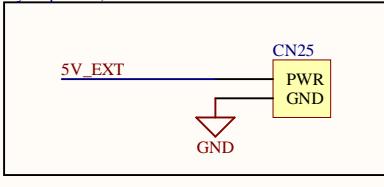
Unallocated, 5V



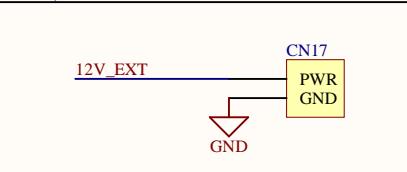
Depth Sensor, 5V @ 3mA



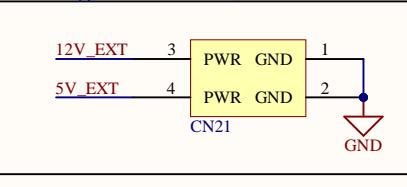
Hydrophones, 5V @ 250mA

**12V**

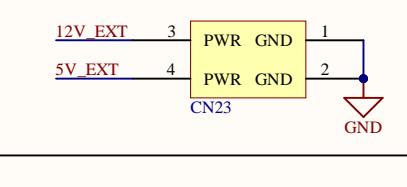
DVL, 12V @ 3A



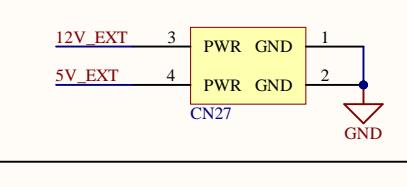
Ball Dropper and Grabber Arm, 12V @ 3A



Unallocated, 12V

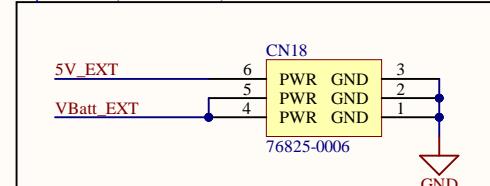


Unallocated, 12V

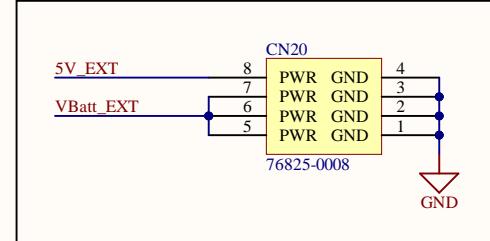
**VBatt**

18V to 28V

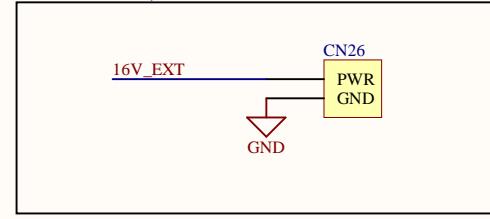
Topedo Board, VBatt @ 30A, 5V @ 250mA



Motor Controller, VBatt @ 60A, 5V @ 250mA

**16V**

Nvidia Jetson TX2, 16V @ 3A



Title

Size

A4

Number

Revision

Date:

7-12-2022

Sheet of

File:

C:\Users\.\External_Connections.SchDoc

Drawn By: Poorna Chander Kalidas

