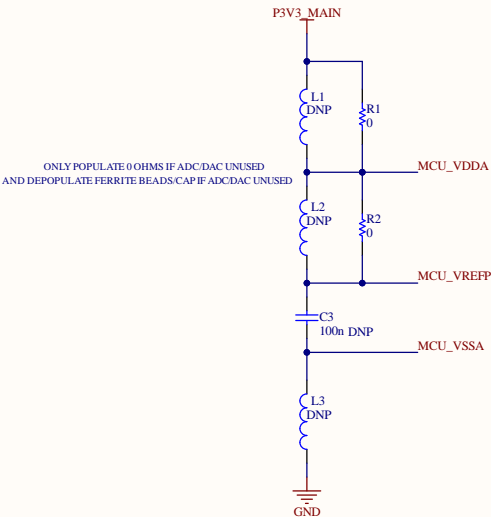
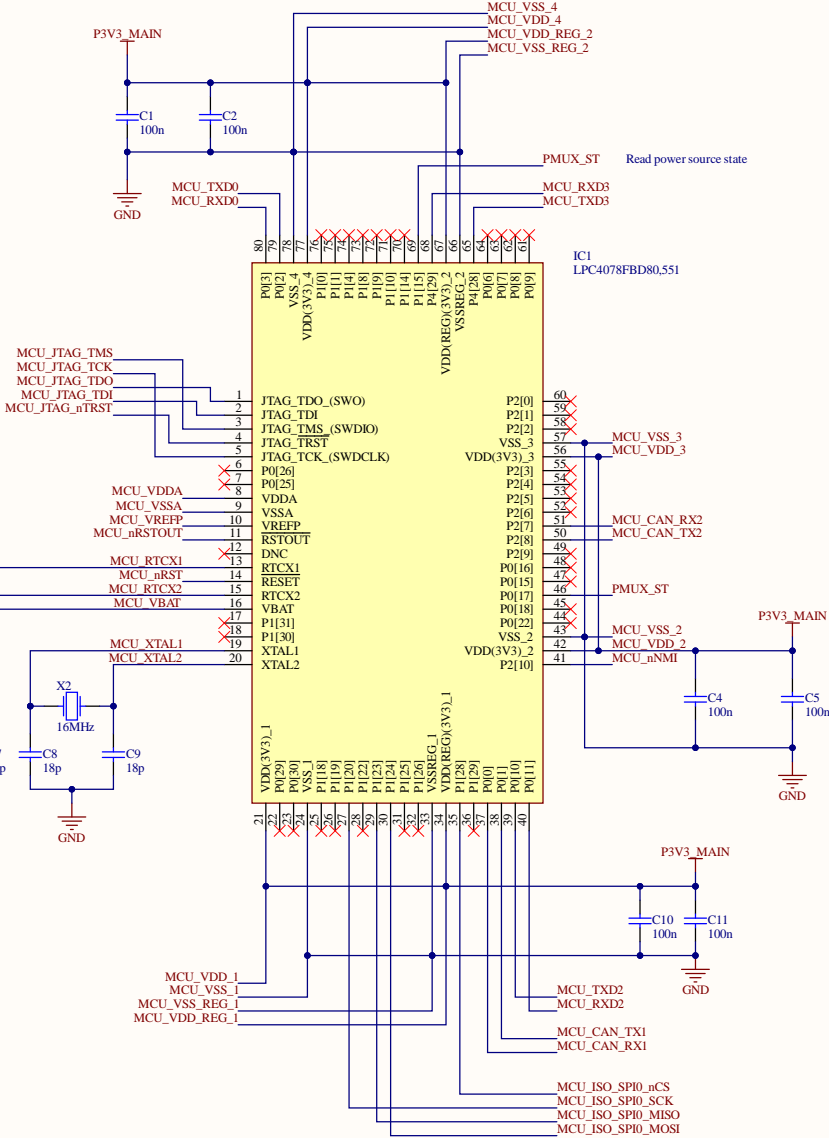
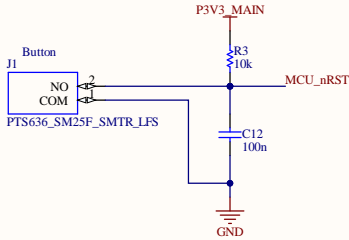


ADC/DAC Analog Supply

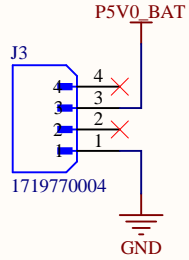


Reset Circuit  
Also resettable via USB

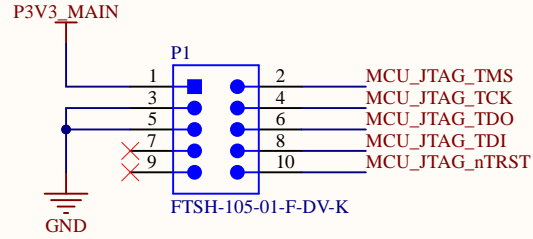


Title Main/MCU Sheet		
Size B	Number	Revision
Date: 4/30/2023	Sheet of 1	Spartan Racing & SRSU
File: C:\Users\j\msMaster_main.SchDoc	Drawn By: Vincent Saw	

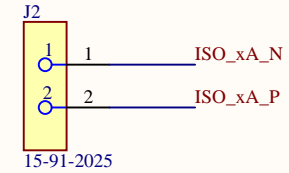
## Power Connector



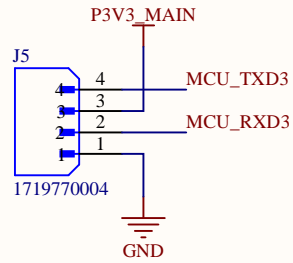
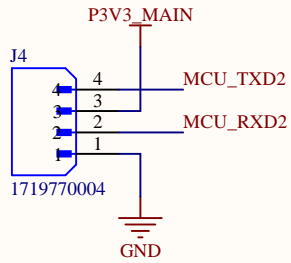
## JTAG Debug Connector



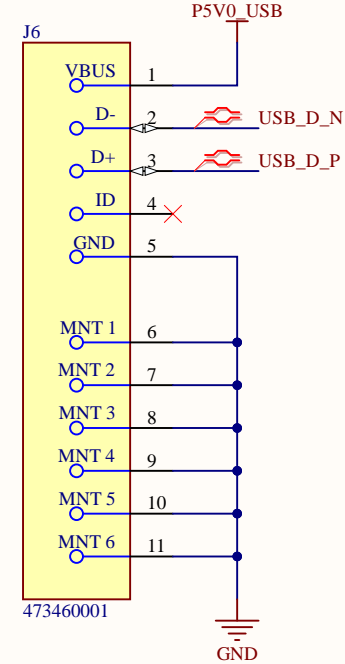
## isoSPI Connector (to 1st Slave)



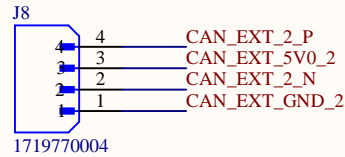
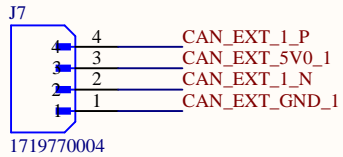
## UART/Serial Connectors



## microUSB Type B Connector

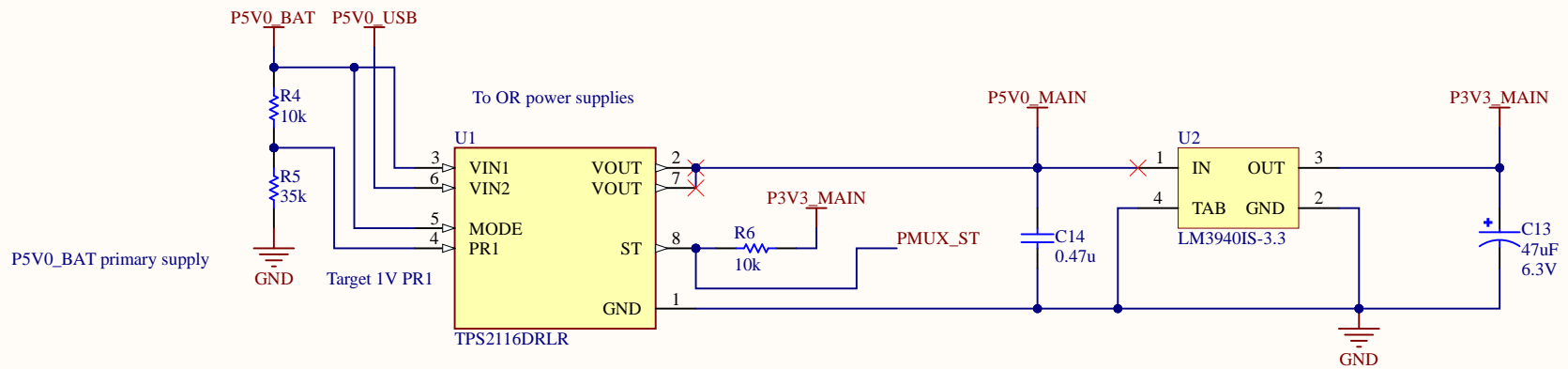


## CAN Connectors



## Title Connector Sheet

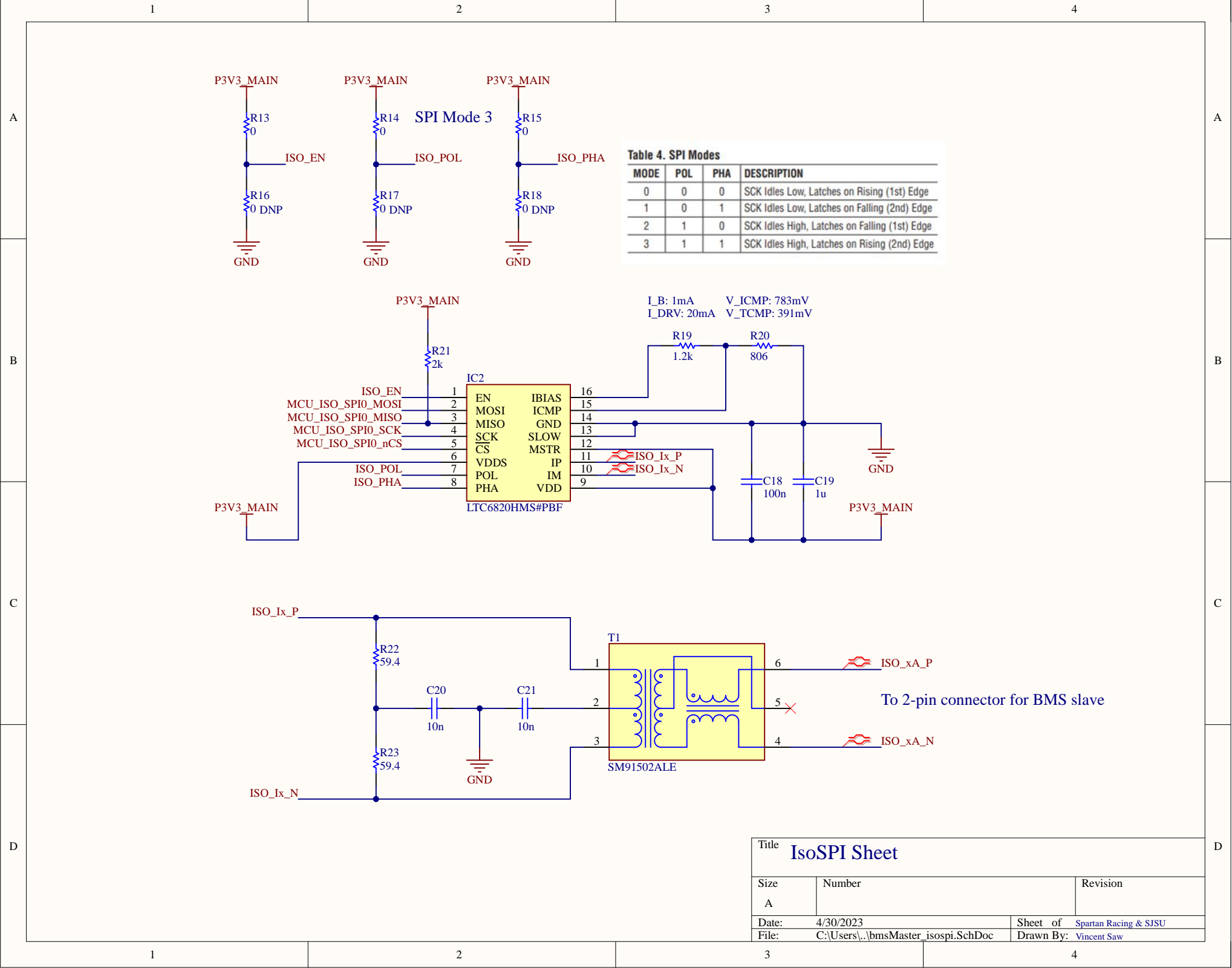
Size	Number	Revision
A		
Date:	4/30/2023	Sheet of Spartan Racing & SJSU
File:	C:\Users\...\bmsMaster_conn.SchDoc	Drawn By: Vincent Saw



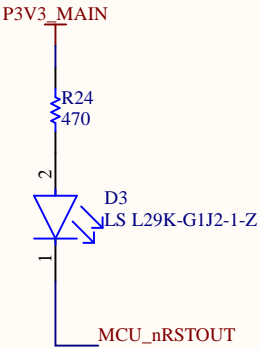
V <sub>REF</sub>	PR1 reference voltage	1.08	-40°C to 105°C	0.92	1	1.08	V
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Title <b>Power Sheet</b>		
Size A	Number	Revision
Date: 4/30/2023	Sheet of Spartan Racing & SJSU	
File: C:\Users\...\bmsMaster_power.SchDoc	Drawn By: Vincent Saw	

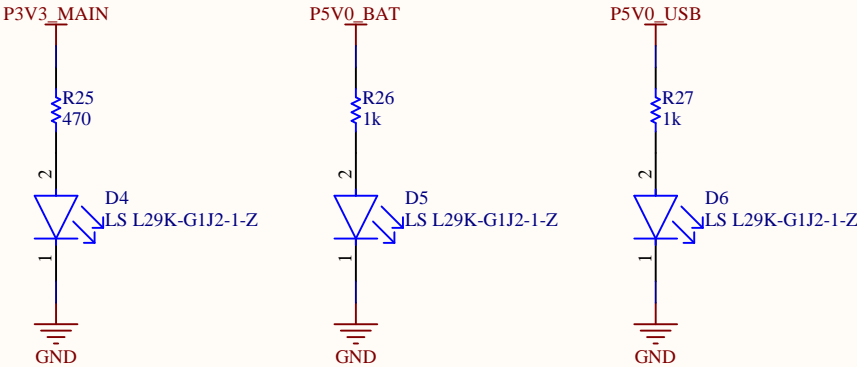




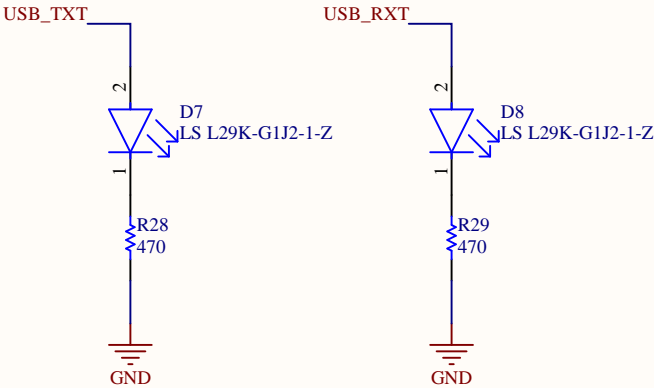
Reset Indicator LED (nRSTOUT)



Power Debug LEDs



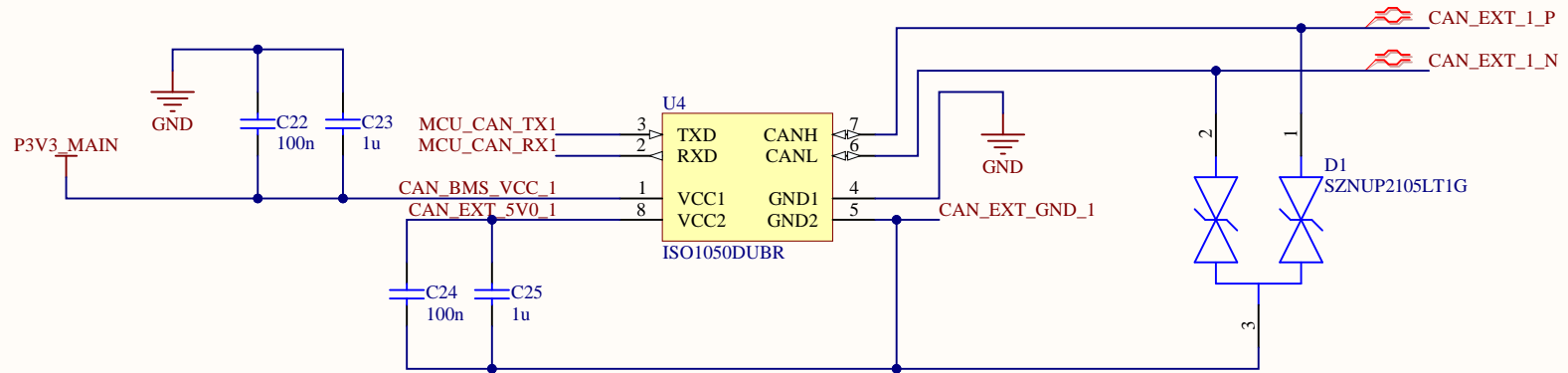
USB/UART0 Activity Indication LEDs



Title LED Sheet		
Size A	Number	Revision
Date: 4/30/2023	Sheet of Spartan Racing & SJSU	
File: C:\Users\...\bmsMaster_led.SchDoc	Drawn By: Vincent Saw	

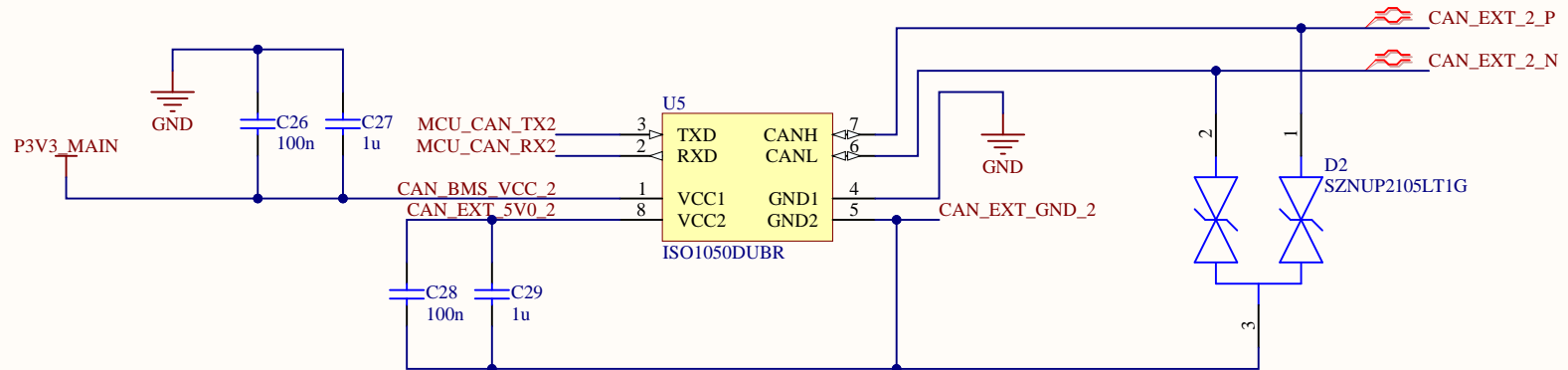
### Isolated CAN Transceiver 1

Requires external 5V and GND for isolation purposes  
TODO: Add on-board isolated power for VCC2/GND2



### Isolated CAN Transceiver 2

Requires external 5V and GND for isolation purposes  
TODO: Add on-board isolated power for VCC2/GND2



Title <b>CAN Bus Sheet</b>		
Size A	Number	Revision
Date: 4/30/2023	Sheet of Spartan Racing & SJSU	
File: C:\Users\...\bmsMaster_can.SchDoc	Drawn By: Vincent Saw	

# Board Stack Report