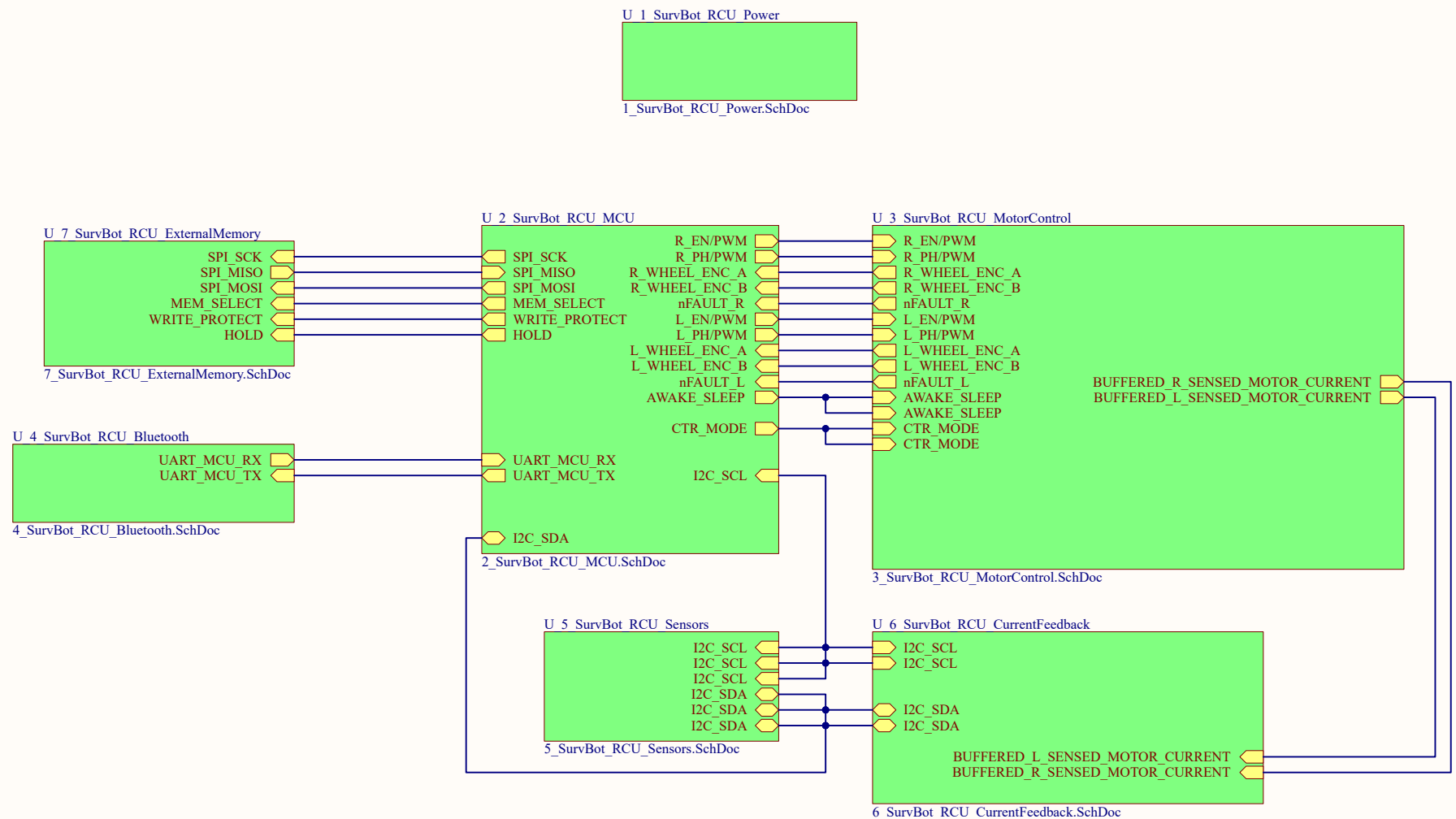


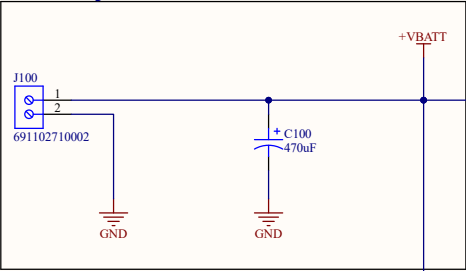
Altium Designer SurvBot-RCU



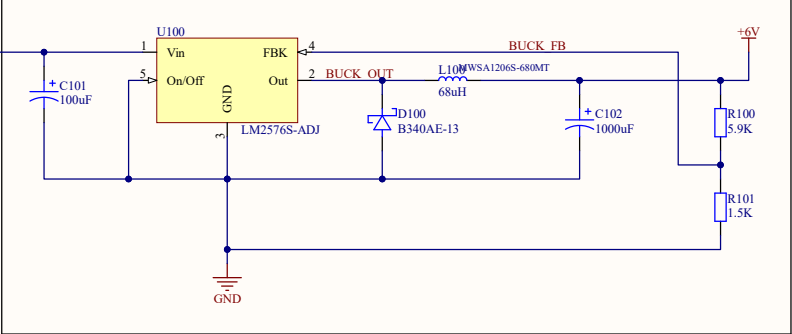
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Size	Number	Revision	
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File:	D:\ECE Projects\10 SurvBot RCU Overview\SurvBot-RCU Overview.SchDoc		

[1] Power

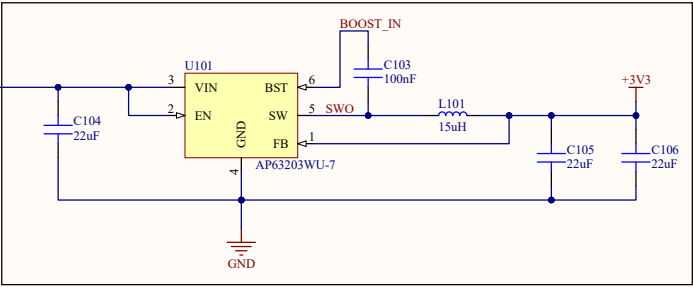
Battery Connector



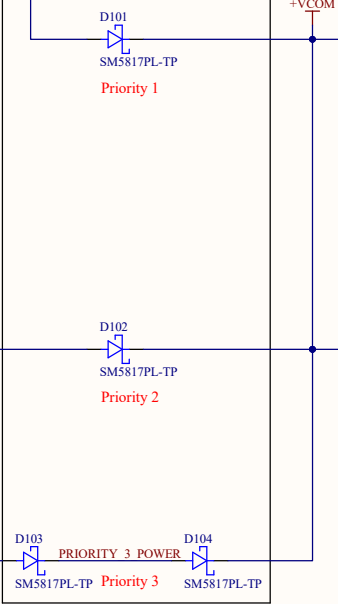
Powers Motor Control [3]



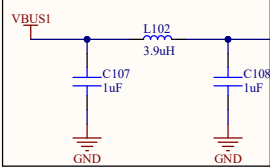
Powers Microcontroller[2], Bluetooth[4], Sensors[5] & External Memory[7]



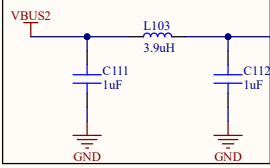
Power Selector



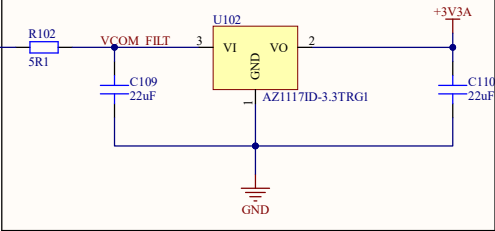
USB1 Power Filter



USB2 Power Filter

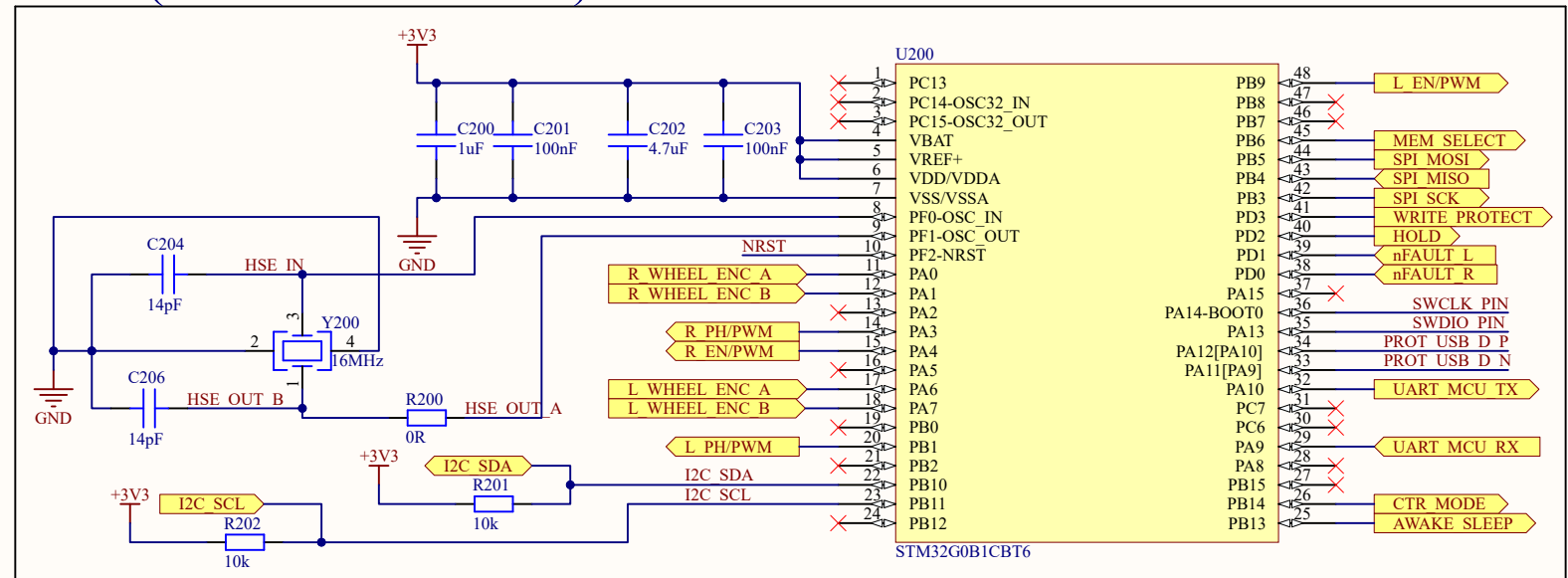


Power Current Feedback[6]

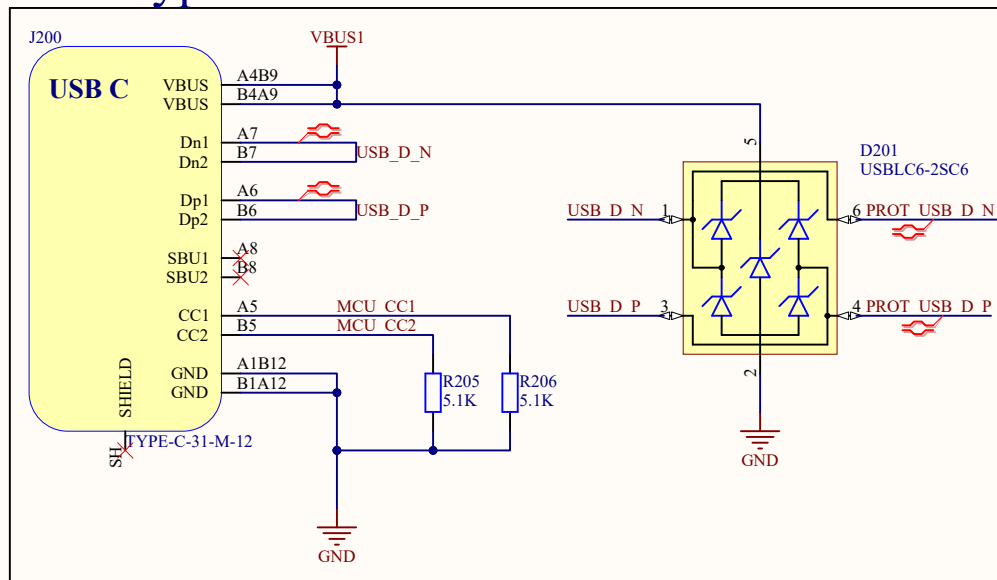


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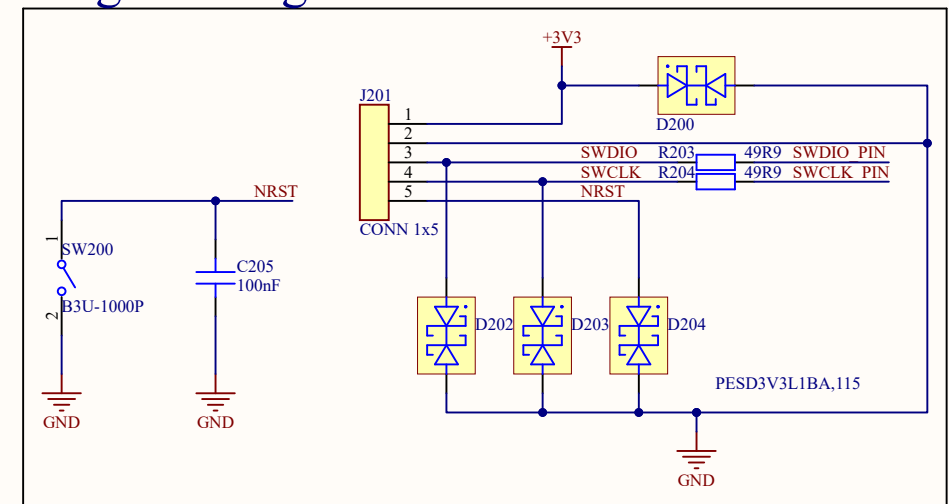
MCU (STM32G0B1CBT6)



USB Type C Connector Schematic



Programming and Reset



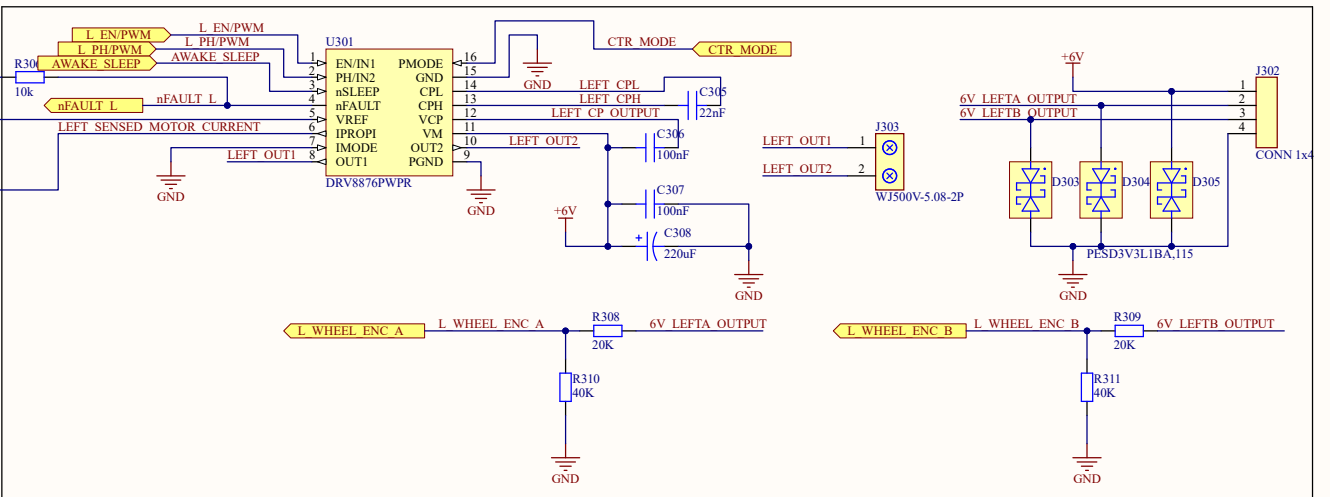
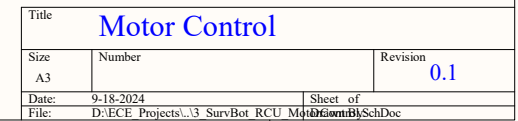
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Size	Number				Revision
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A

B

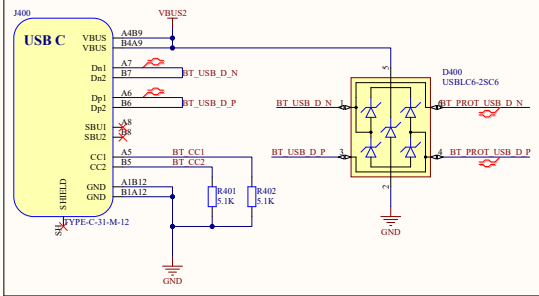


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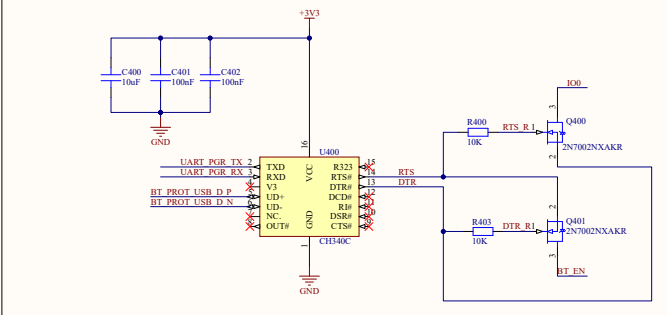


[4] Bluetooth

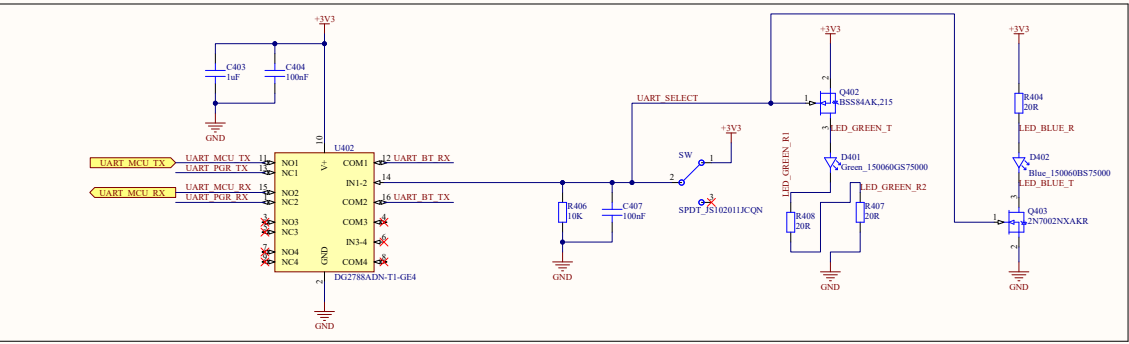
USB Type C Connector Schematic



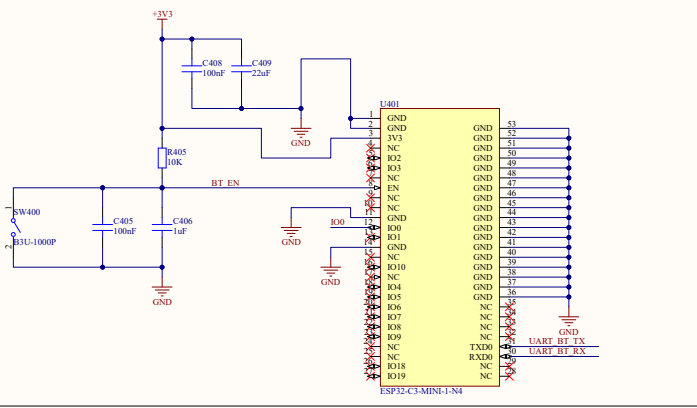
USB to UART with CH340C



Programing/Transcieving Selector



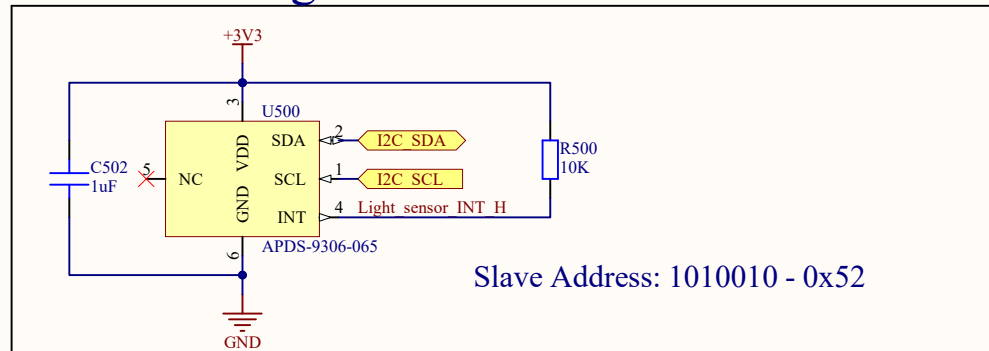
ESP32-Mini Bluetooth Module



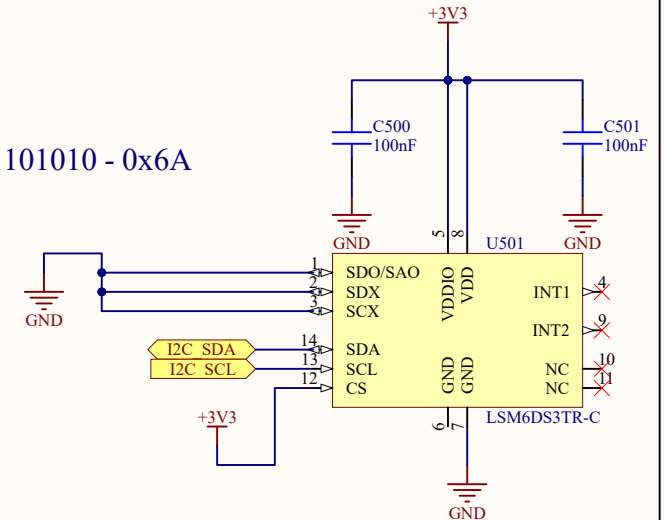
[5] Sensors

Accelerometer & Gyroscope

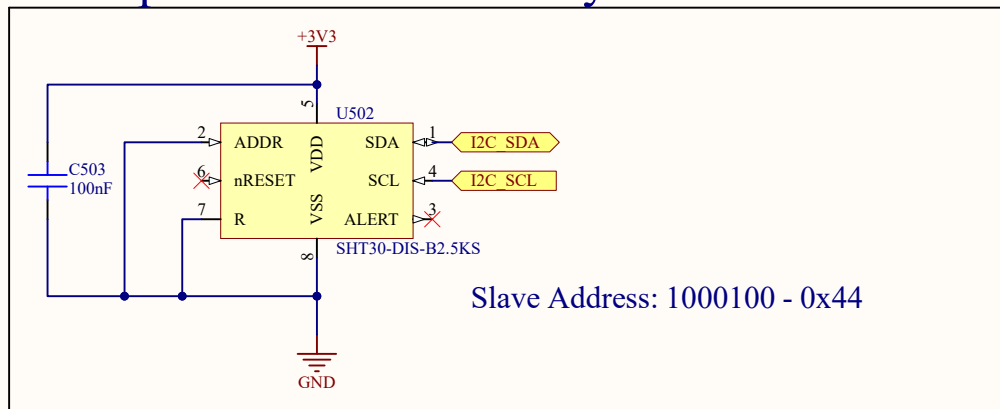
Ambient Light Sensor



Slave Address: 1101010 - 0x6A



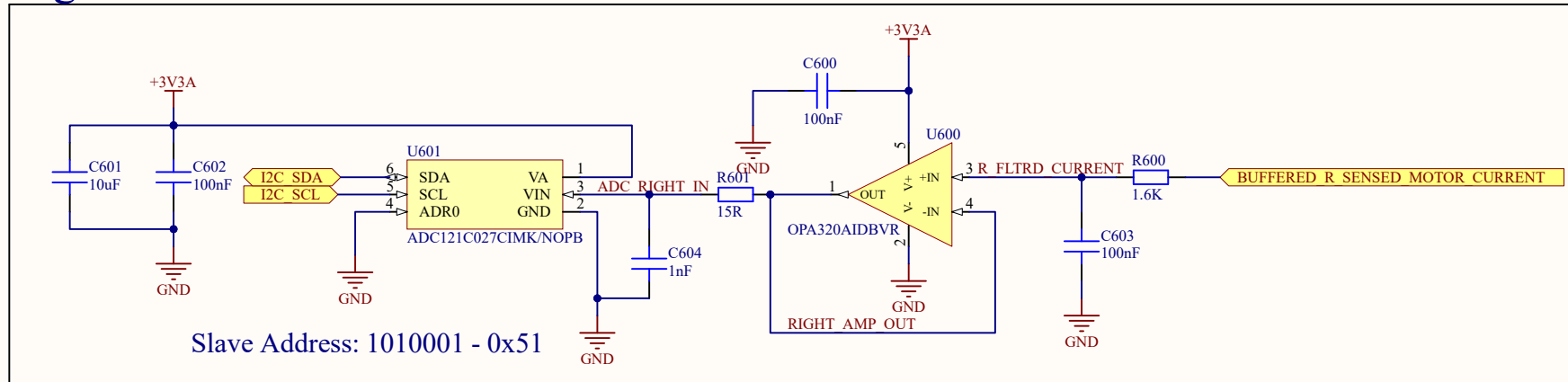
Temperature and Humidity Sensor



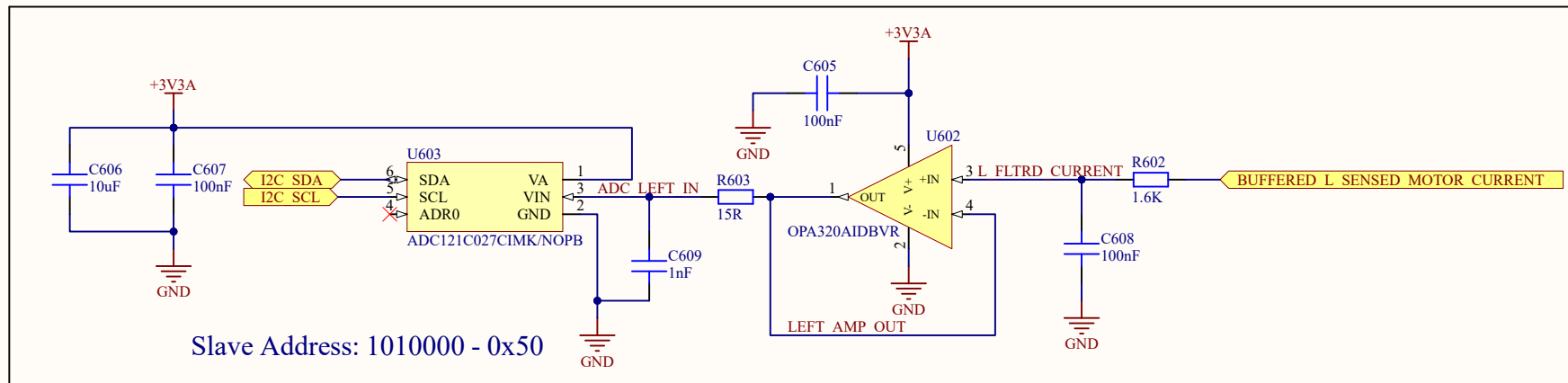
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[6] Current Feedback

Right Motor Current ADC



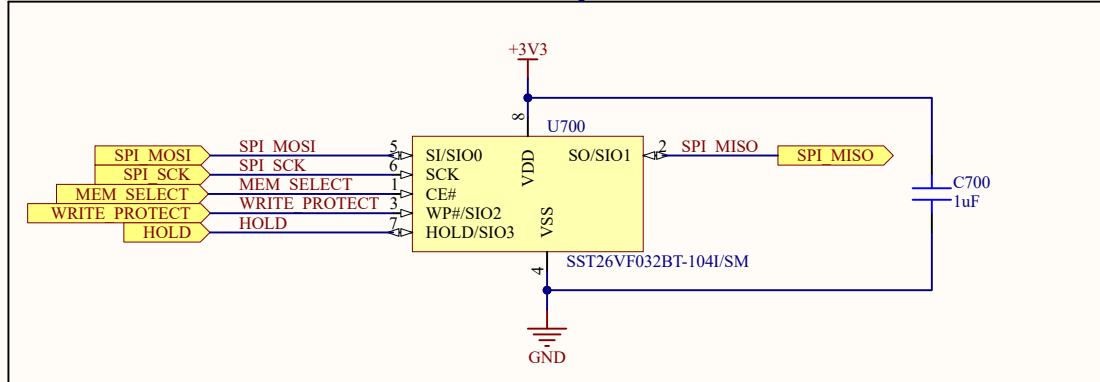
Left Motor Current ADC



Title			Current Feedback
Size	Number	Revision	
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Date:	9-18-2024	Sheet of	
File:	D:\ECE Projects\16 SurvBot RCU Current Feedback.SchDoc		

[7] External Memory

32Mbit NOR Flash Memory



Title			External Memory
Size	Number	Revision	
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Date:	9-18-2024	Sheet of	
File:	D:\ECE Projects\...\7 SurvBot RCU External Memory.SchDoc		