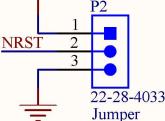
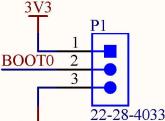
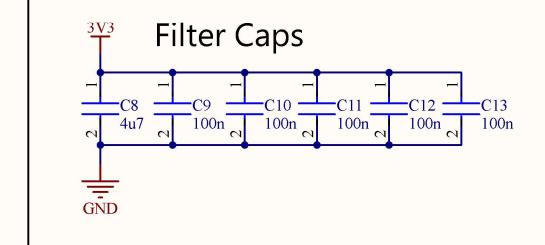
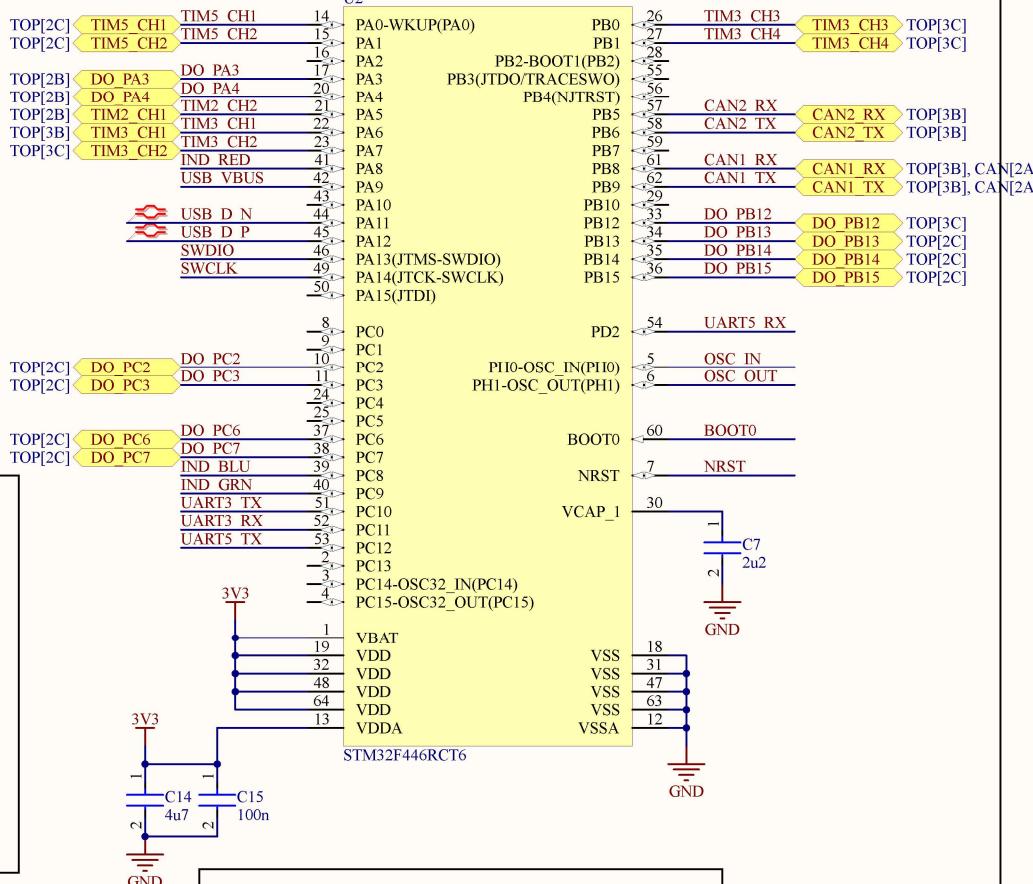
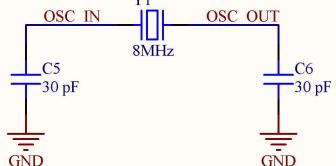
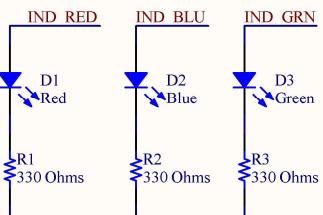


MCU

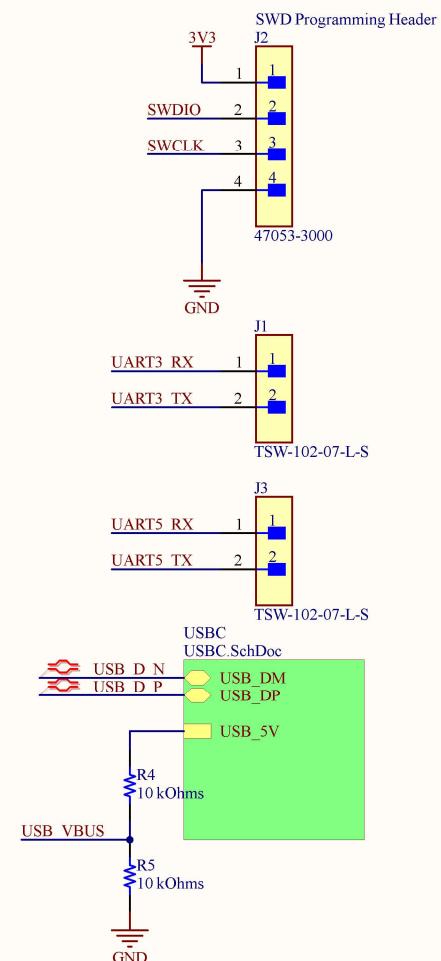
Boot Jumpers



Indication



MCU Connectors



Title: **ARM Control Board**

Page Contents: **ARM_MCU.SchDoc**

Drawn By: **Jacob Chisholm** Checked By: **None**

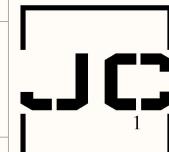
Size: **A4** Number: **2** Revision: *********

Date: **12/13/2024** Time: **2:57:39 PM** Sheet **2** of **9**

License:

Email: **JacobChisholm101@gmail.com** Website: **<https://jchisholm204.github.io>**

File: **C:\Users\Jacob\Desktop\Arm_Control_Board\ARM_MCU.SchDoc**



USB C Connector

A

A

B

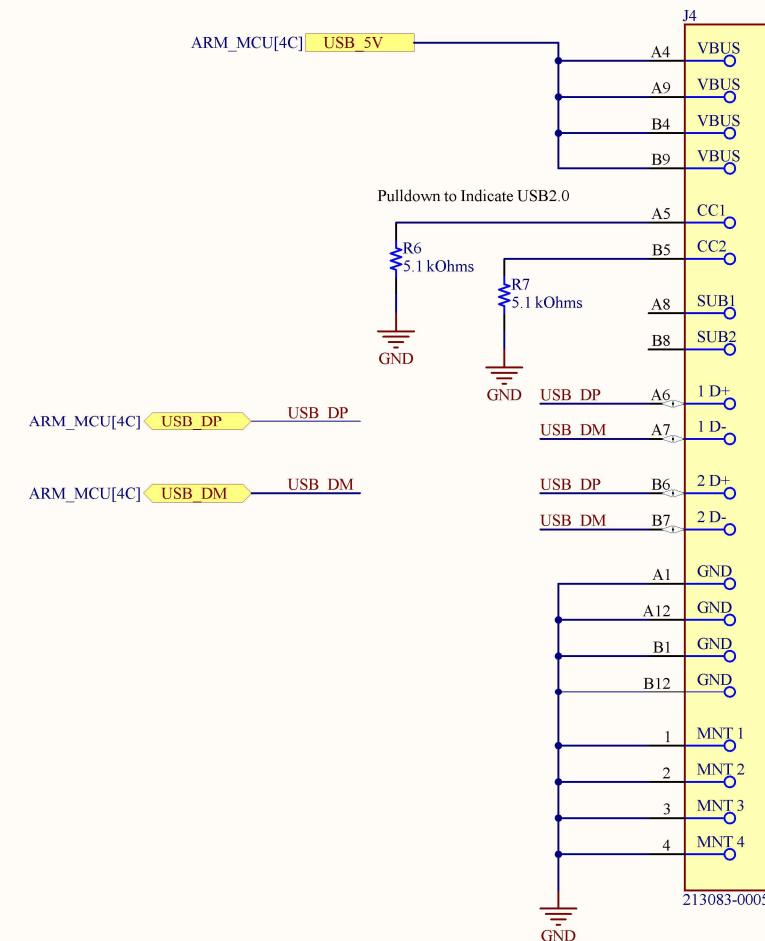
B

C

C

D

D



Title: **ARM Control Board**

Page Contents: **USBC.SchDoc**

Drawn By: **Jacob Chisholm** Checked By: **None**

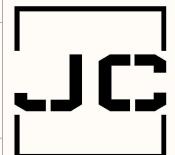
Size: **A4** Number: **3** Revision: *********

Date: **12/13/2024** Time: **2:57:39 PM** Sheet **3** of **9**

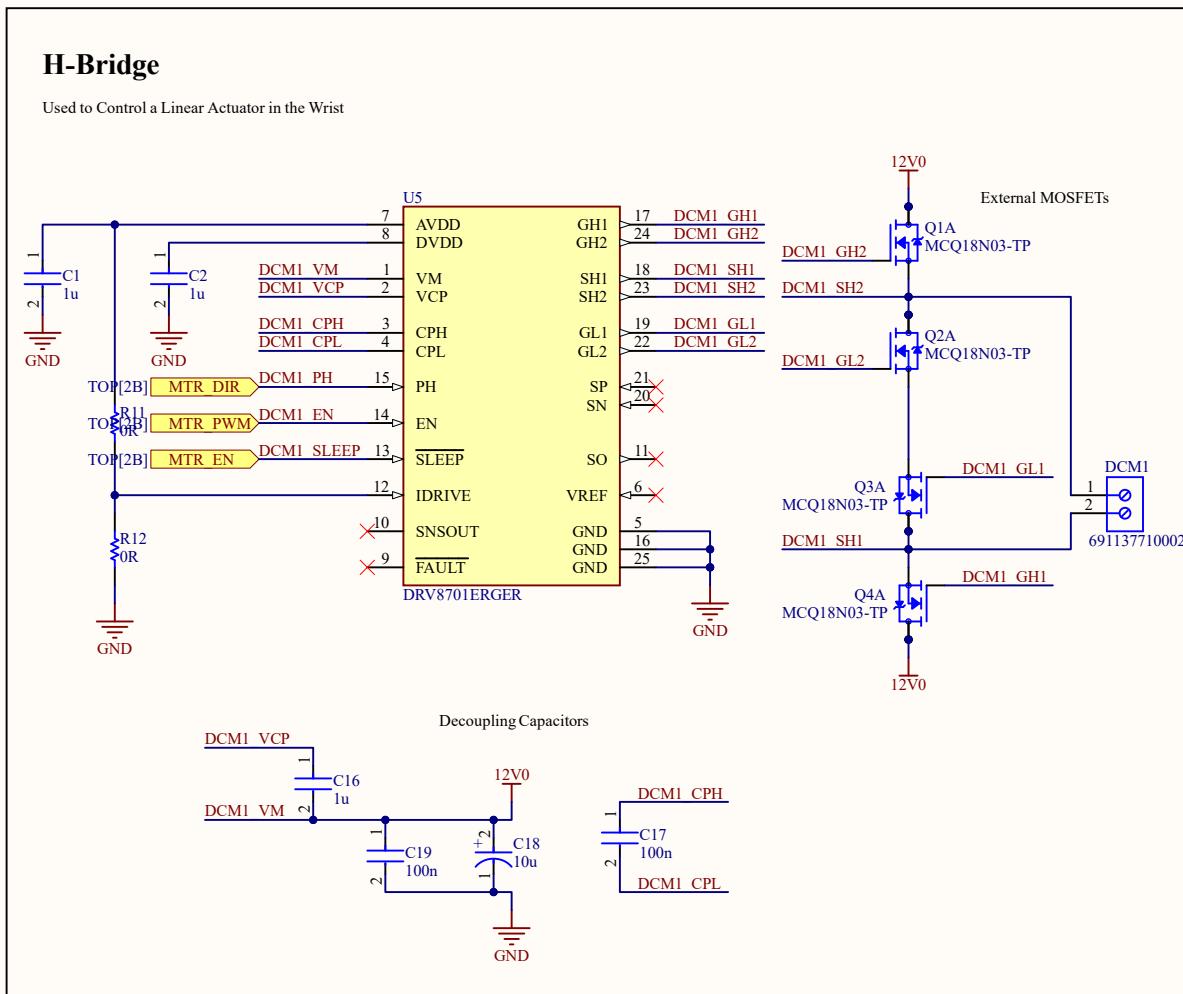
License:

Email: **JacobChisholm101@gmail.com** Website: **<https://jchisholm204.github.io>**

File: **C:\Users\Jacob\Desktop\Arm_Control_Board\USBC.SchDoc**

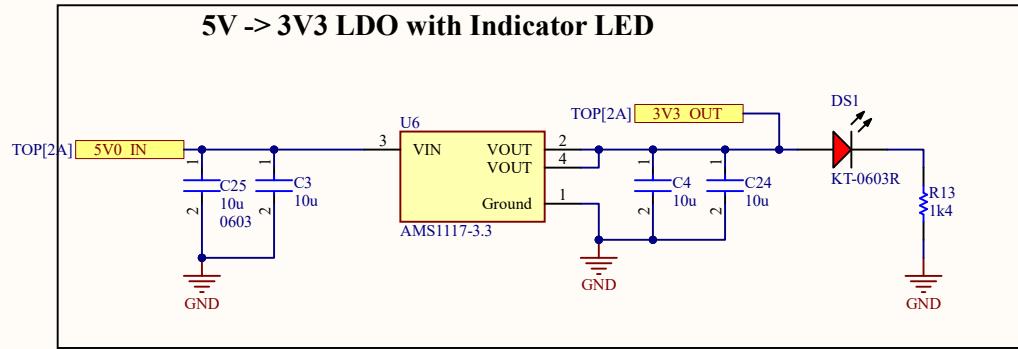


Motors



Title	Arm Motors			Cannot open file C:\Users\ma
Date	Dec 3, 2024	Rev	0	Drawn By: Matthew Szalawiga Page 4

Power



TOP[1A] 12V0 IN

TOP[2A] 5V0 OUT

Missing 12V->5V Converter

Going to be a 12-5V buck converter which will get 12V in from an Anderson connector, the 5V powers the servos, and then gets stepped down to 3V3

Title	Arm Power			Cannot open file C:\Users\ma
Date	Dec 3, 2024	Rev	Drawn By:	Page

Dec 3, 2024

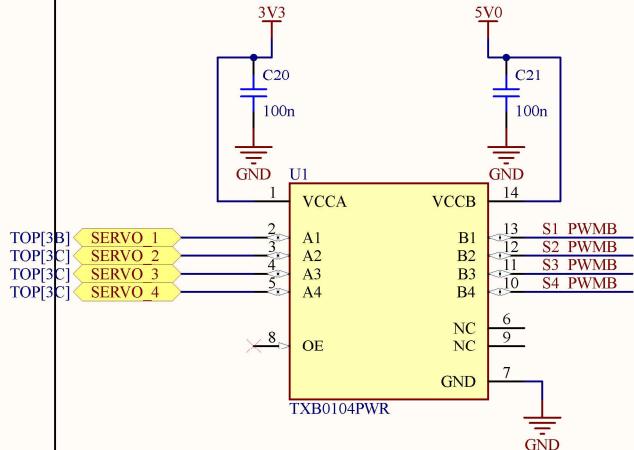
0

Matthew Szalawiga

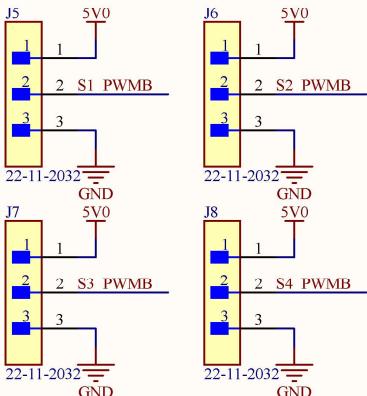
4

Servo Logic Level Shifting

While most 5V Servos support 3V3 Logic, cannot guarantee the new ones will



Servo Headers



Title: **ARM Control Board**

Page Contents: **ARM_SERVO.SchDoc**

Drawn By: **Jacob Chisholm** Checked By: **None**

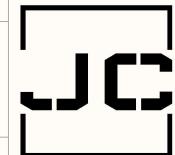
Size: A4 Number: **6** Revision: *********

Date: 12/13/2024 Time: 2:57:40 PM Sheet **6** of **9**

License:

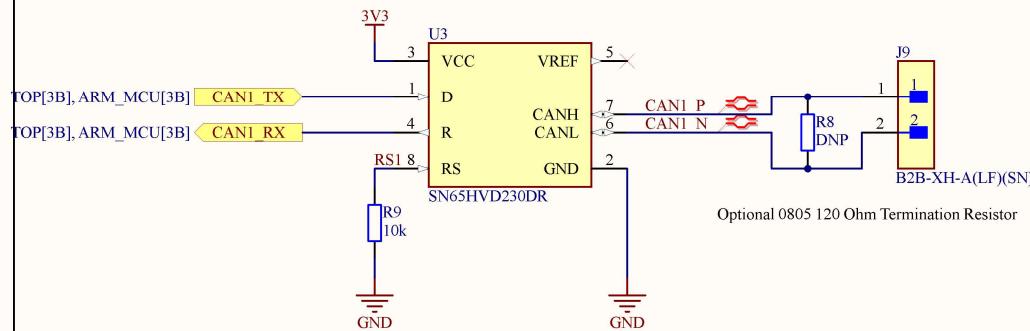
Email: JacobChisholm101@gmail.com Website: <https://jchisholm204.github.io>

File: C:\Users\Jacob\Desktop\Arm_Control_Board\ARM_SERVO.SchDoc



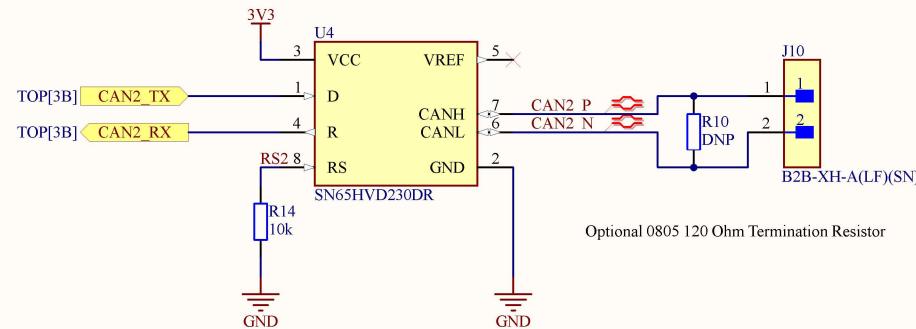
A

A

CAN1

B

B

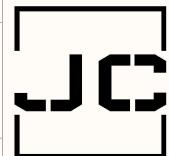
CAN2

C

C

Title: **ARM Control Board**Page Contents: **CAN.SchDoc**Drawn By: **Jacob Chisholm** Checked By: **None**Size: **A4** Number: **7** Revision: *********Date: **12/13/2024** Time: **2:57:40 PM** Sheet **7** of **9**

License:

Email: **JacobChisholm101@gmail.com** Website: **<https://jchisholm204.github.io>**File: **C:\Users\Jacob\Desktop\Arm_Control_Board\CAN.SchDoc**

Limit Switches

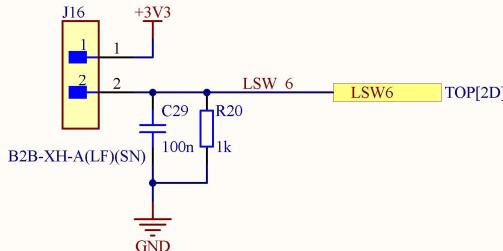
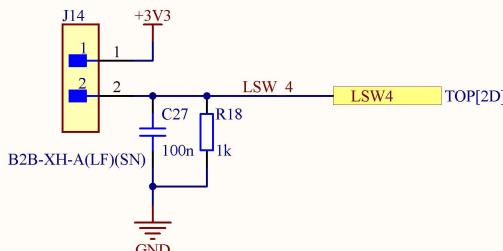
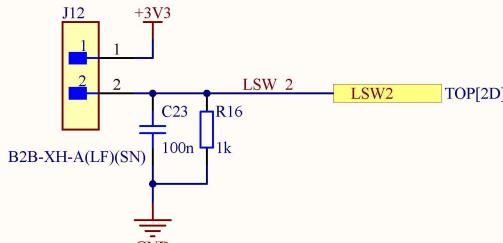
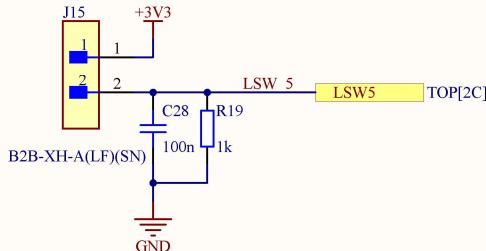
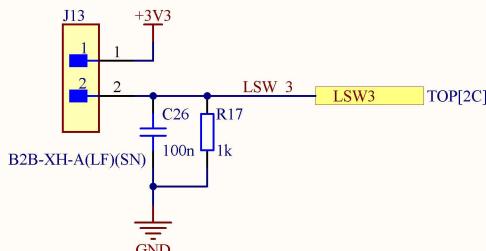
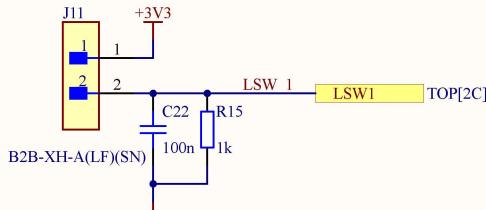
LSW_n are limit switches that just need to go to Digital GPIO

SPDT Rollers operated as SPST switches

Switch Wiring:

Pin 1: NO

Pin 2: Common



Title: **ARM Control Board**

Page Contents: [ARM_LIMIT_SW.SchDoc](#)

Drawn By: **Jacob Chisholm** Checked By: **None**

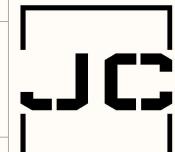
Size: A4 Number: 8 Revision: *****

Date: 12/13/2024 Time: 2:57:40 PM Sheet 8 of 9

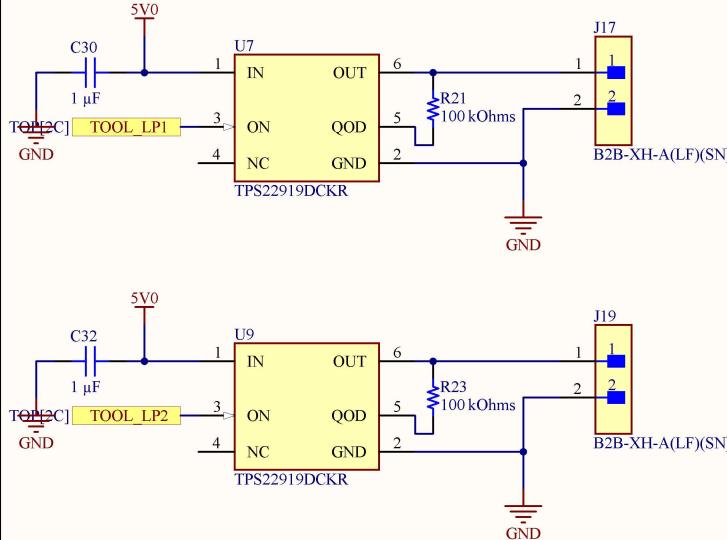
License:

Email: JacobChisholm101@gmail.com Website: <https://jchisholm204.github.io>

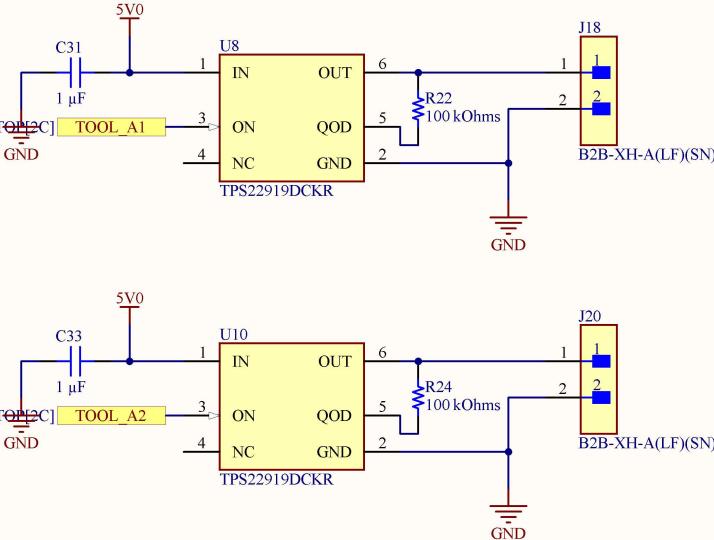
File: C:\Users\Jacob\Desktop\Arm_Control_Board\ARM_LIMIT_SW.SchDoc



A

Wrist Laser Pointers

B

Additional

C

Title: **ARM Control Board**Page Contents: [ARM_TOOLING.SchDoc](#)Drawn By: **Jacob Chisholm** Checked By: **None**

Size: A4 Number: 9 Revision: ****

Date: 12/13/2024 Time: 2:57:41 PM Sheet 9 of 9

License:

Email: JacobChisholm101@gmail.com Website: <https://jchisholm204.github.io>

File: C:\Users\Jacob\Desktop\Arm_Control_Board\ARM_TOOLING.SchDoc

