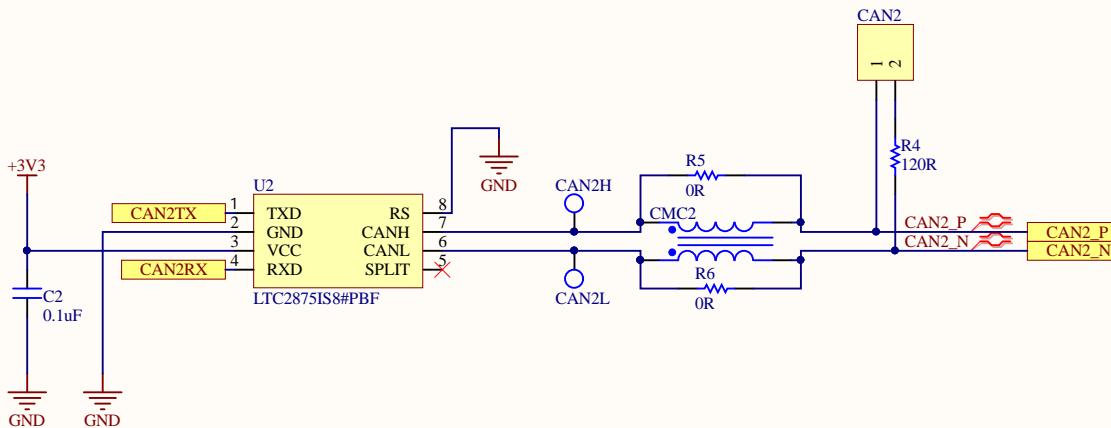
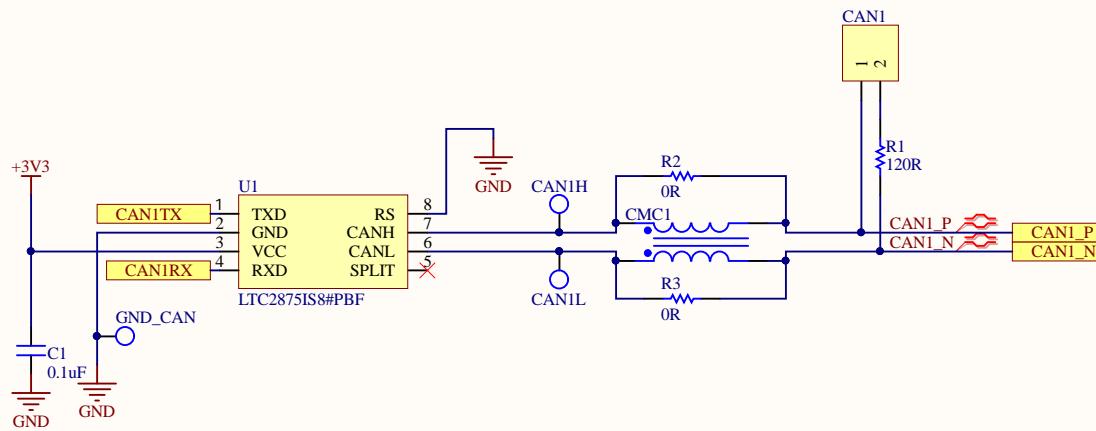
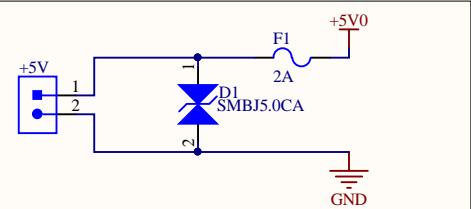


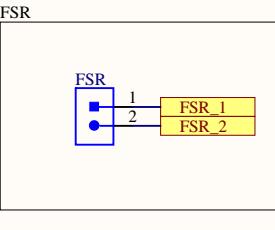
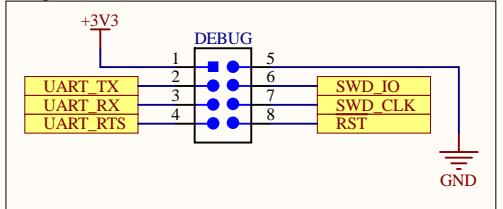
## CAN Transceivers



## Power Connector



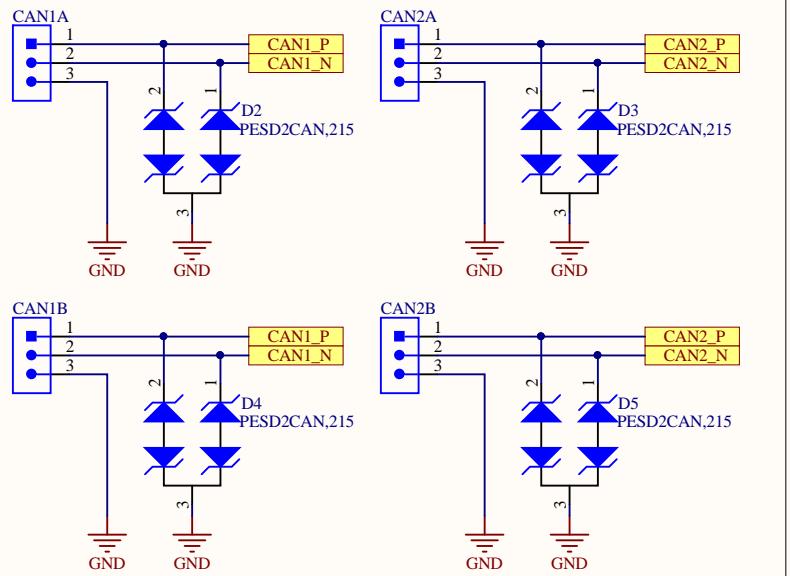
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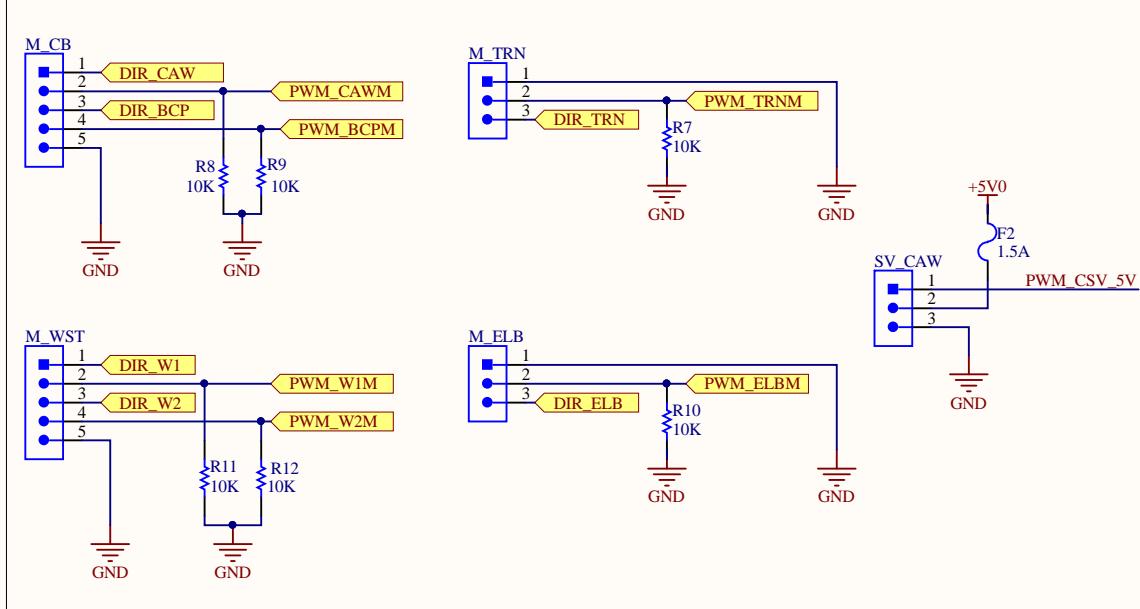
## Acronyms Explained

FSR: Force Sensitive Resistor  
 CAW: Claw  
 WST: Wrist  
 BCP: Bicep (Shoulder)  
 ELB: Elbow  
 TRN: Turntable  
 DIR: Direction for motors

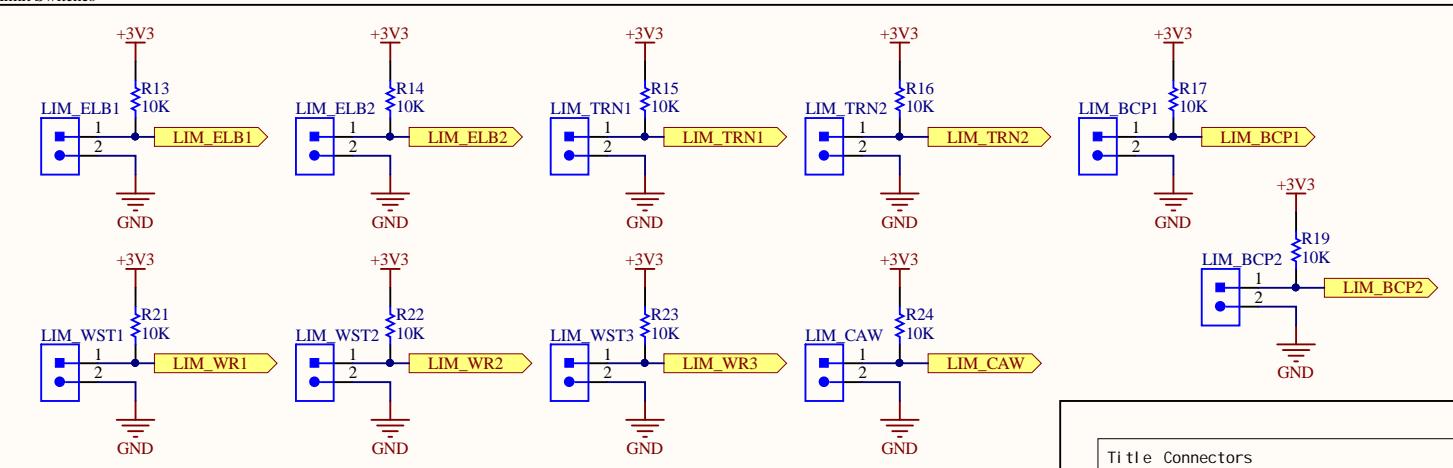
## CAN Connections



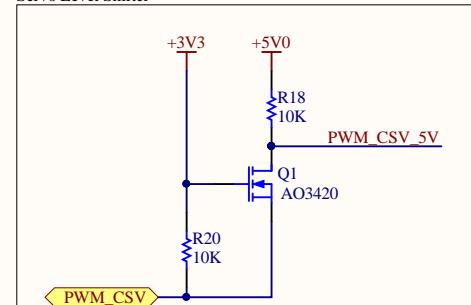
## Motors



## Limit Switches



## Servo Level Shifter



## Title Connectors

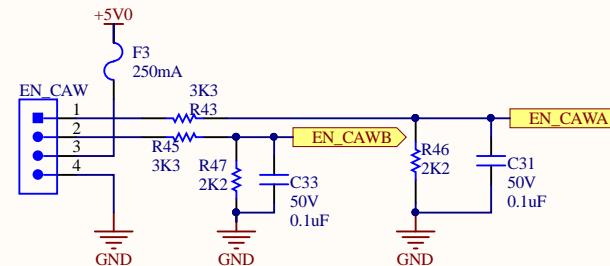
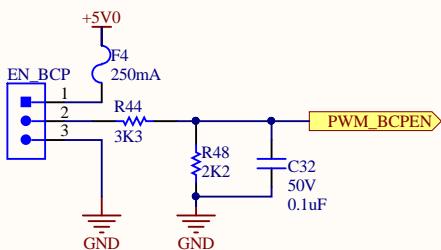
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 Date: 1/26/2020 | Sheet of  
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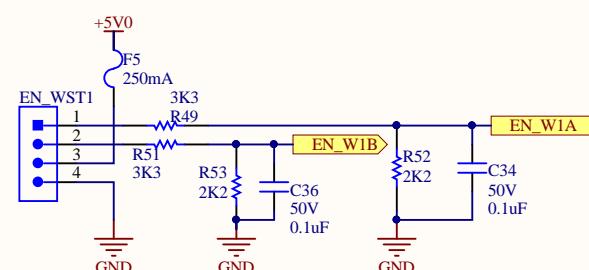
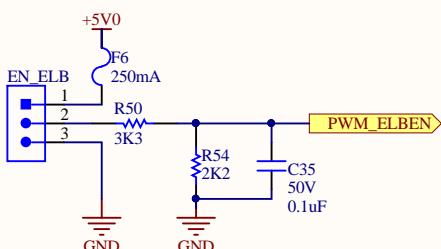
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## Encoders

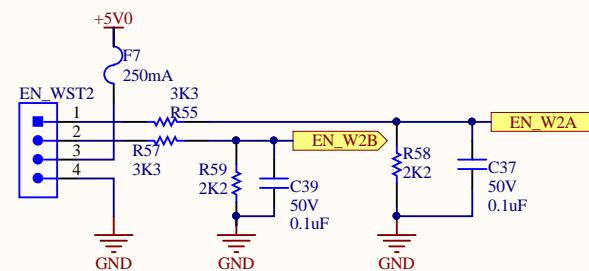
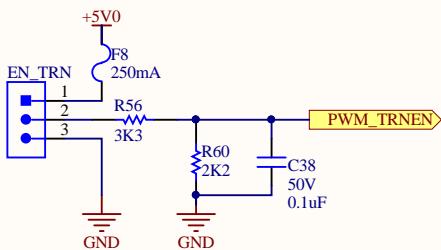
A



B



C



D

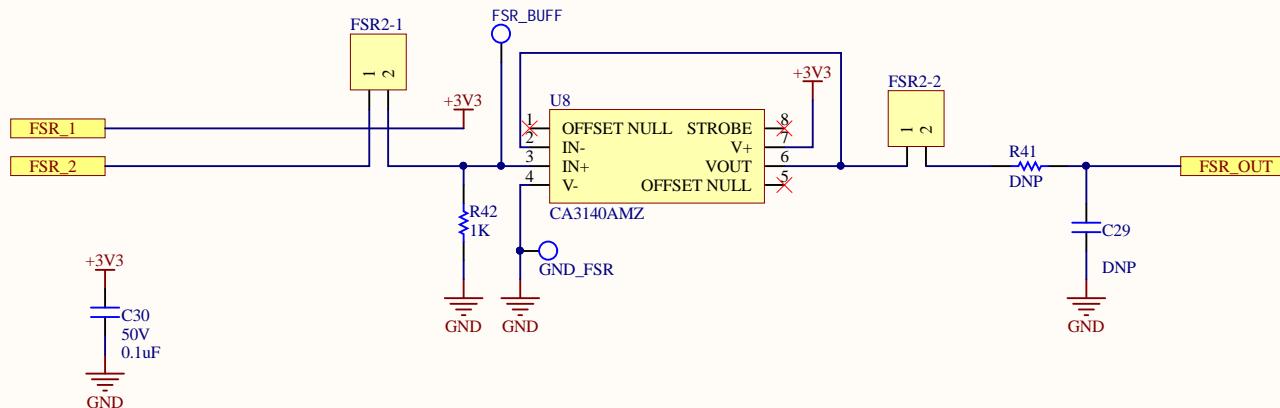
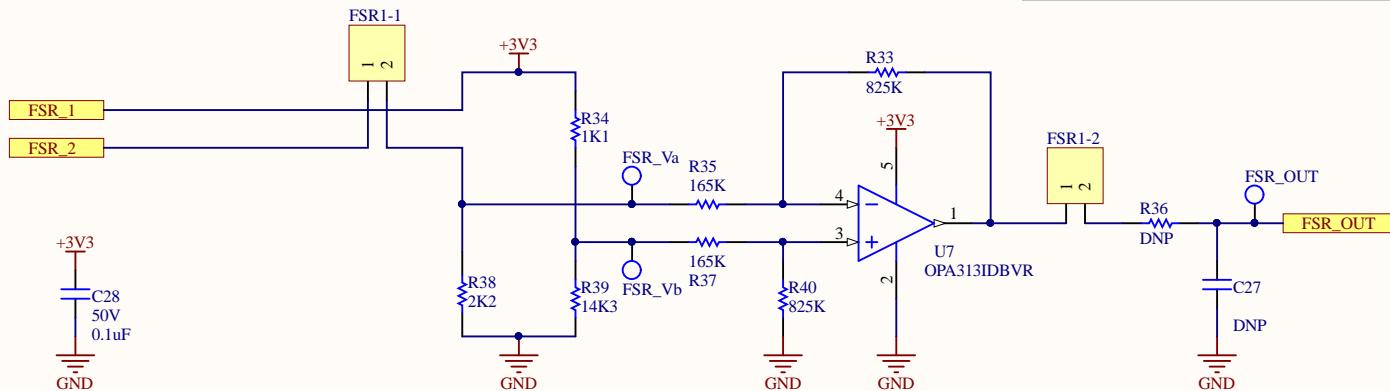
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# Force Sensitive Resistor

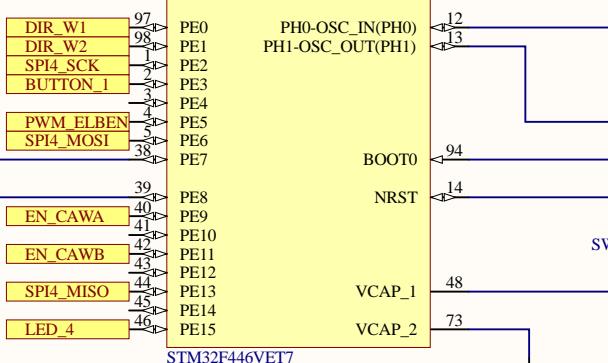
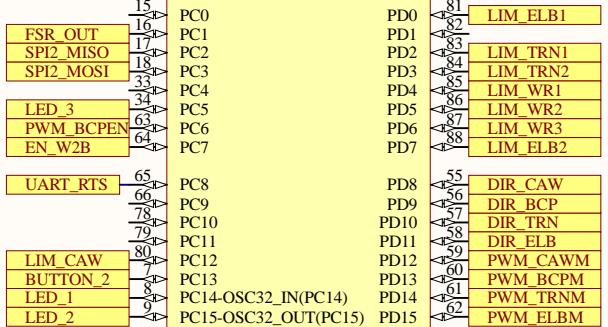
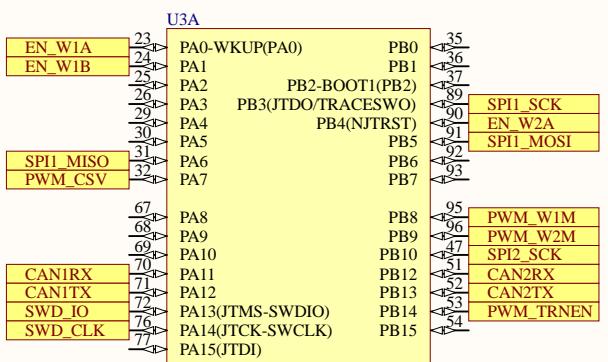
Links to calculations and documentation

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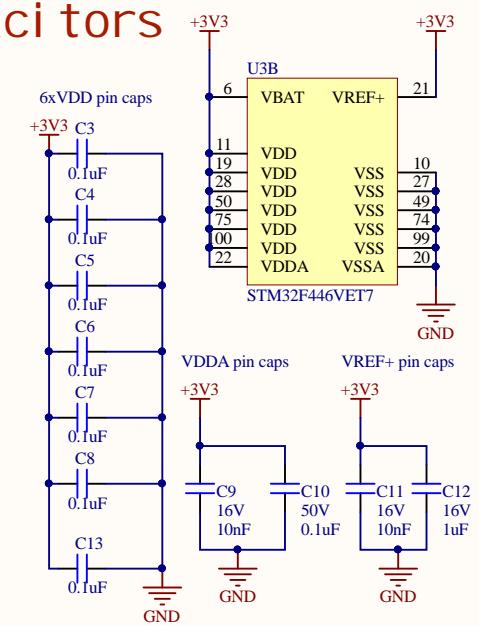
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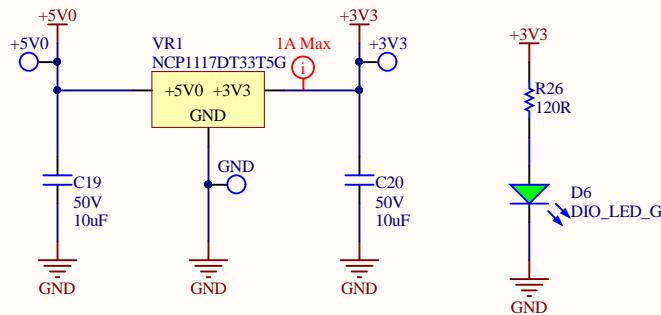
# STM32F446VET7



## Bypass Capacitors



## 5V-3.3V LDO

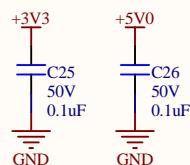
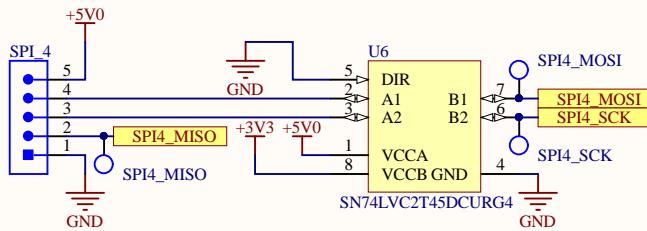
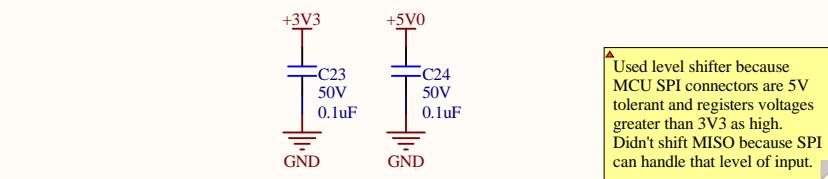
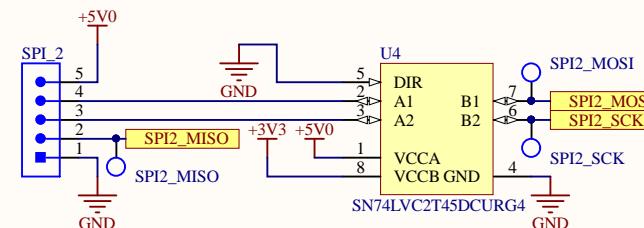
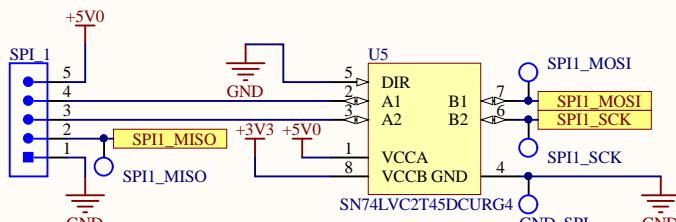


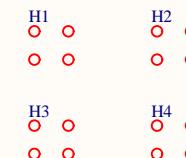
### Current Calculations

Green LED voltage drop: 2.2V  
 $I = (3.3 - 2.2V)/120 = 10.83mA$

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Date: 1/26/2020 Sheet of			
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# SPI Encoders

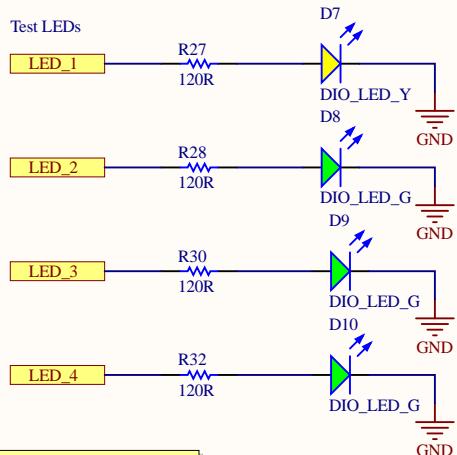




A

A

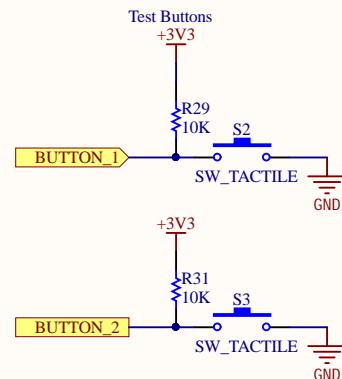
## Test LEDs



B

B

## Test Buttons



C

C

### Current Calculations

Yellow LED voltage drop: 2.2V  
 $- I = (3.3-2.2V)/120 = 10.83mA$

Green LED voltage drop: 2.2V  
 $- I = (3.3-2.2V)/120 = 10.83mA$

D

D

### Title Support

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Date: 1/26/2020 | Sheet of

File: C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\Support.SchDoc

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