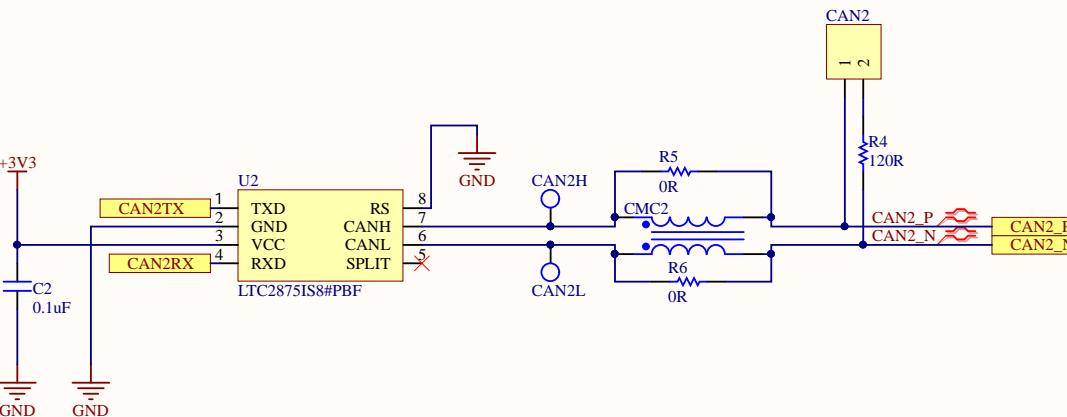
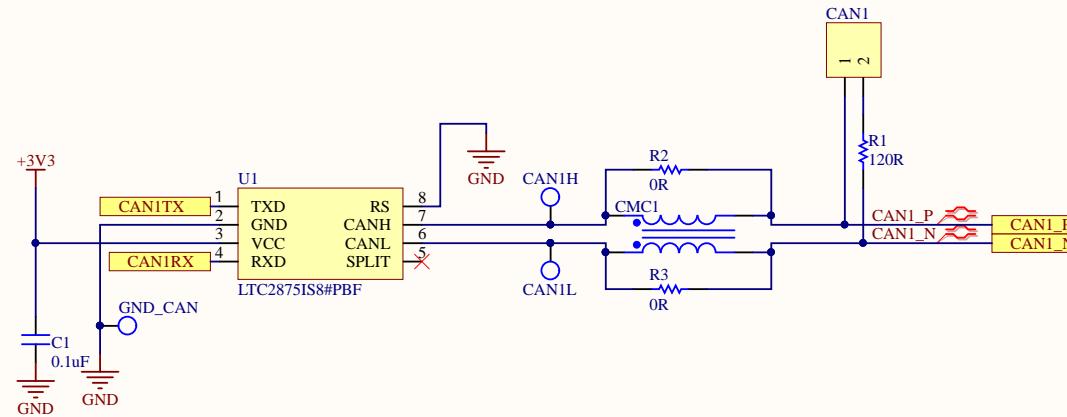
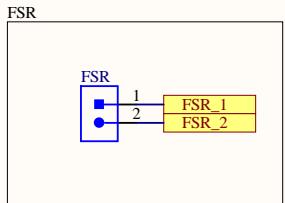
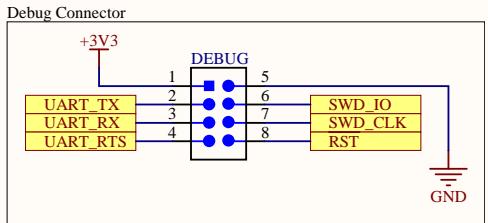
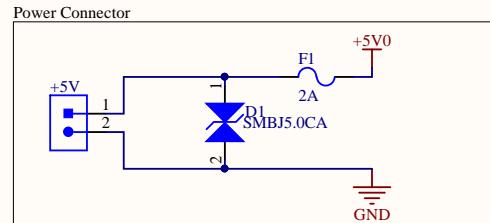


# CAN Transceivers

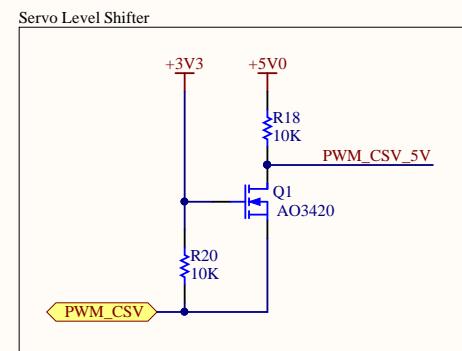
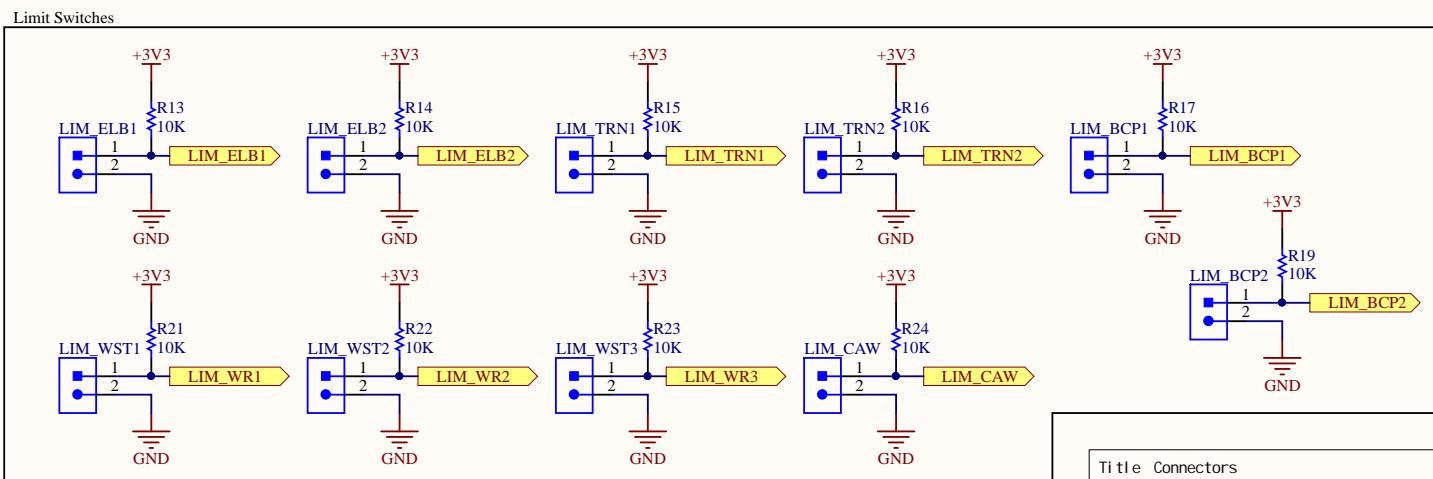
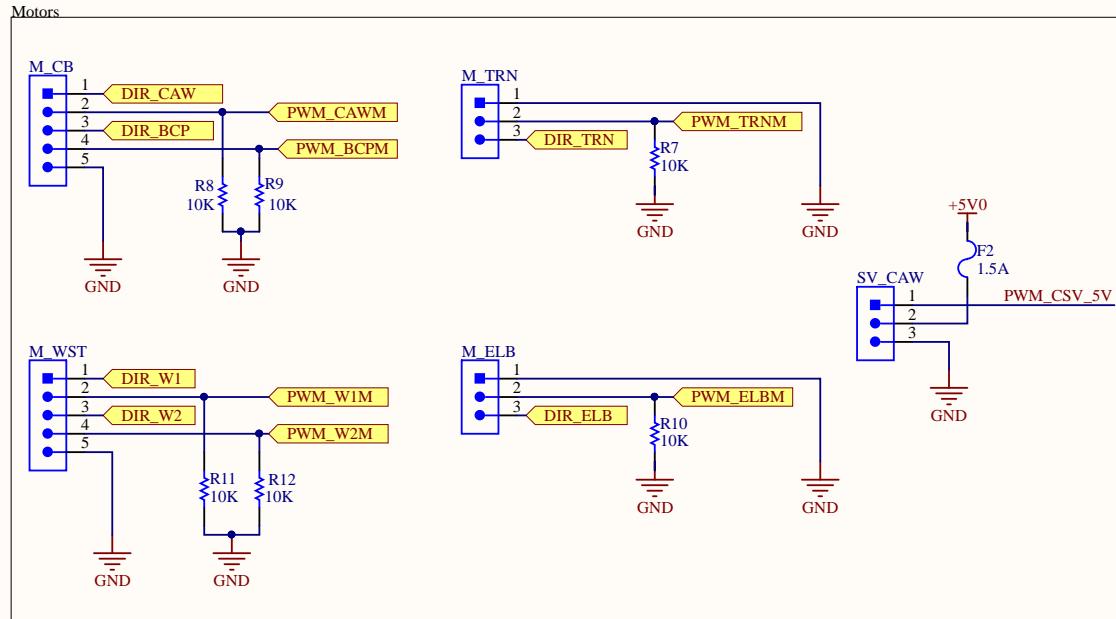
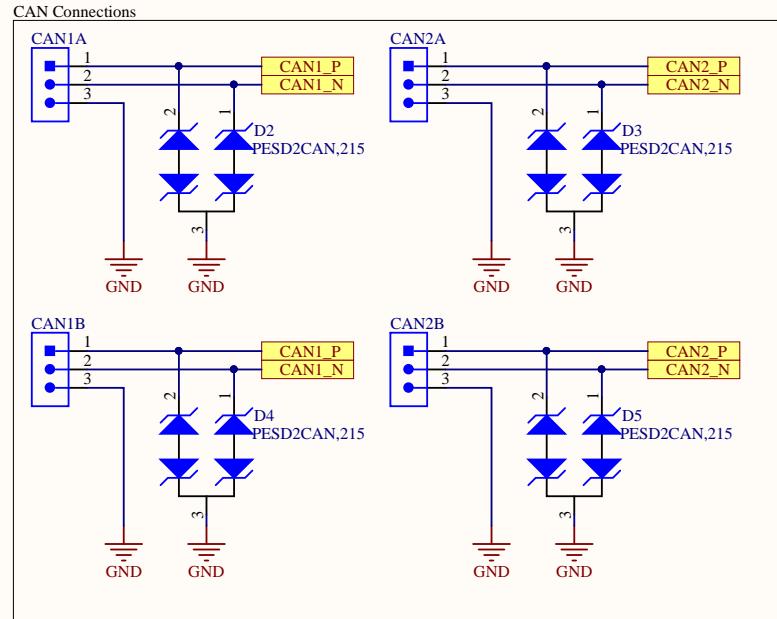


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Date: 2020-01-24		Sheet of	
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**A 4 Acronyms Explained**

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



**D Title Connectors**

Size: Letter Drawn By: Kyle Hong, Noah Chapman

Date: 2020-01-24 Sheet of

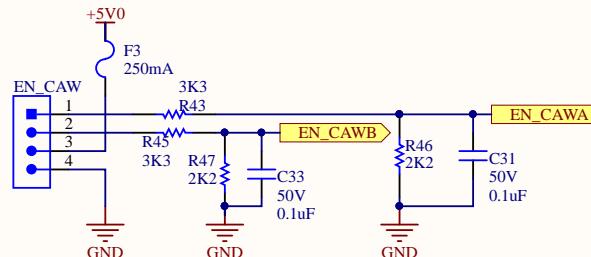
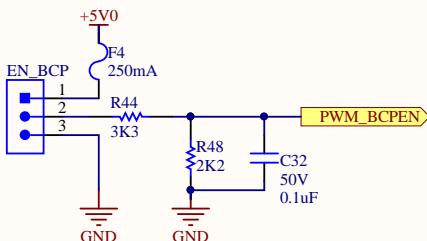
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200 University Avenue  
Waterloo  
Ontario  
Canada N2L 3G6

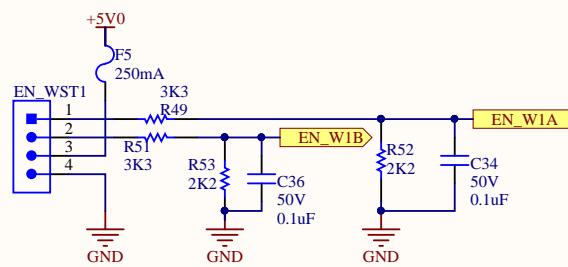
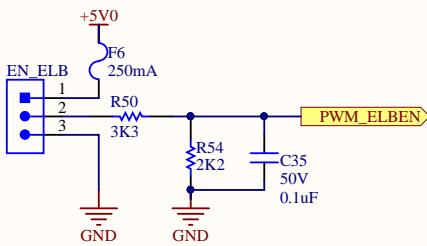
**UW ROBOTICS TEAM**

# Encoders

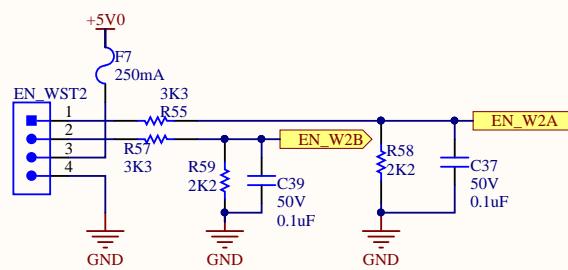
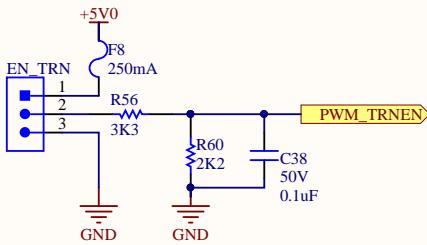
A



B



C

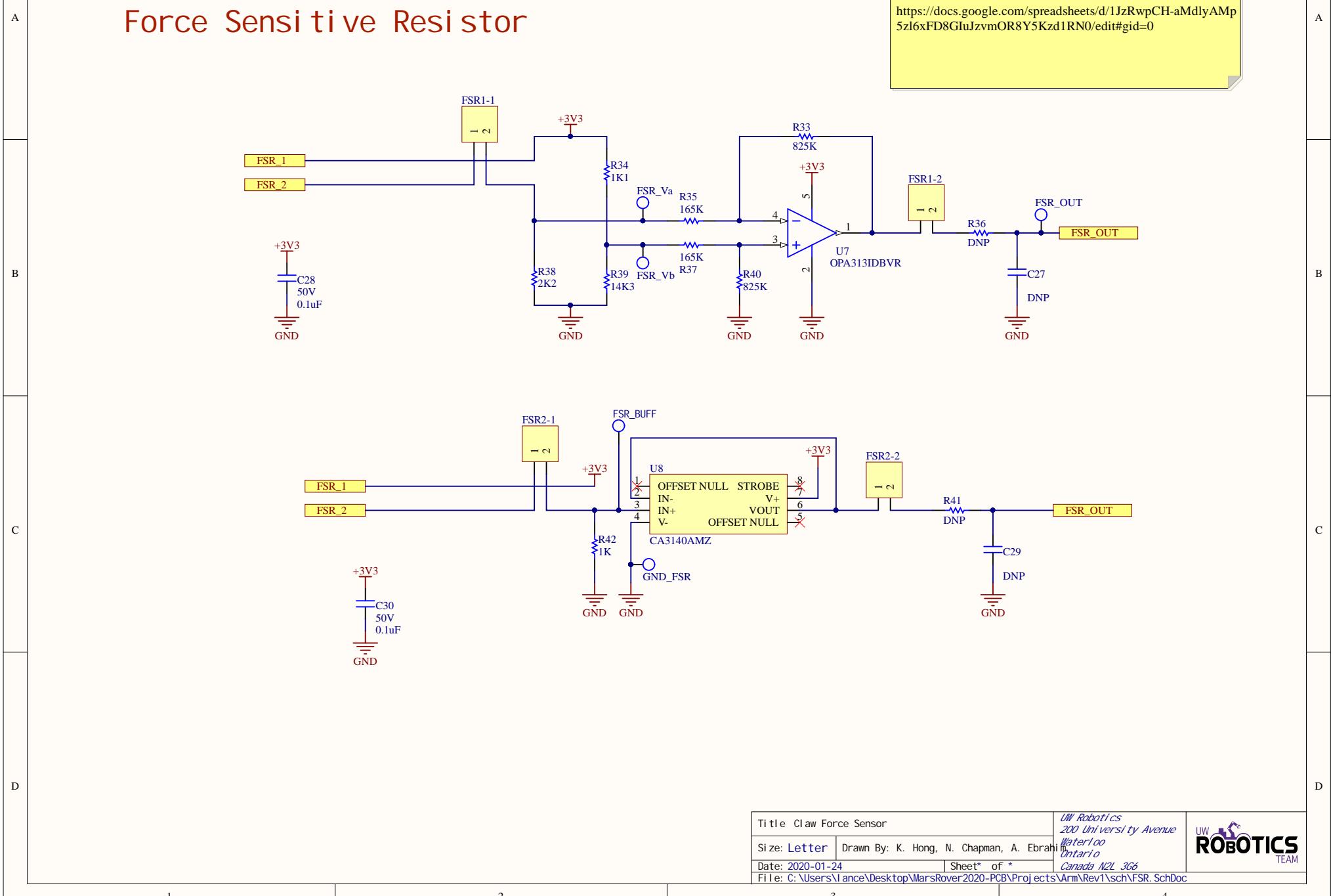


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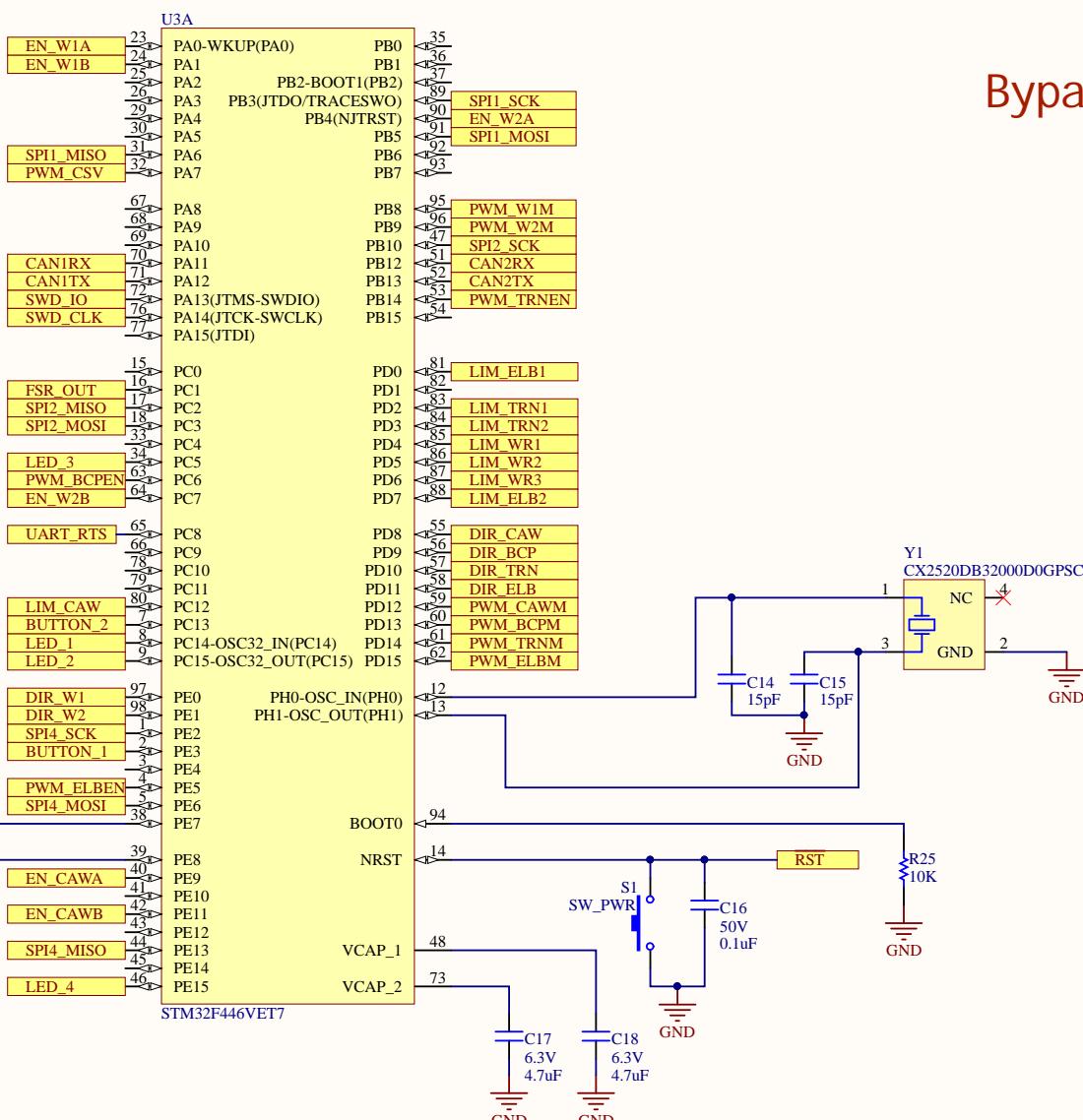
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Date: 2020-01-24	Sheet* of *	
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# Force Sensitive Resistor

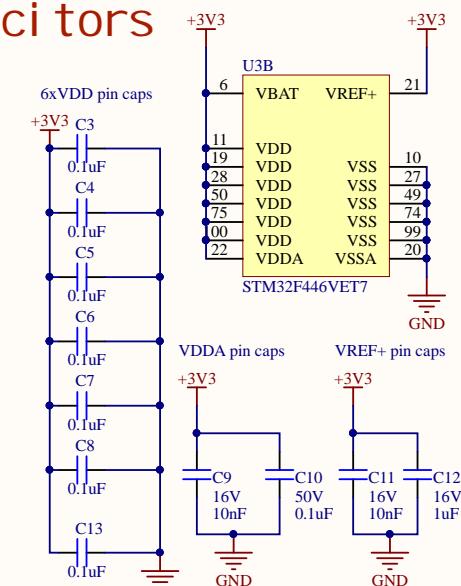
Links to calculations and documentation  
<https://docs.google.com/document/d/1rw19DyF2suYmOmlnorCrfqnUpDln50-sqe5KjQKnCs/edit>  
<https://docs.google.com/spreadsheets/d/1JzRwpCH-aMdlyAMP5zl6xFD8GluJzvmOR8Y5Kzd1RN0/edit#gid=0>



STM32F446VET7



## Bypass Capacitors



A

A

B

B

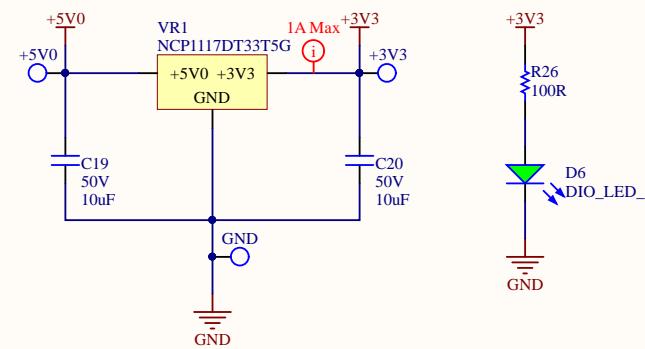
C

C

D

D

## 5V-3.3V LDO

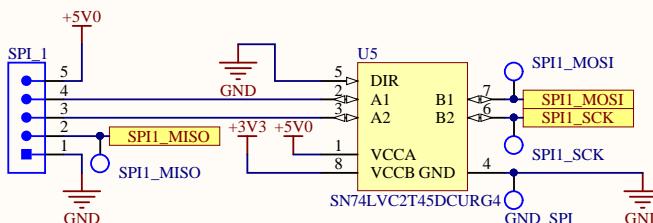


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Size: Letter	Drawn By: Kyle Hong		
Date: 2020-01-24		Sheet of	
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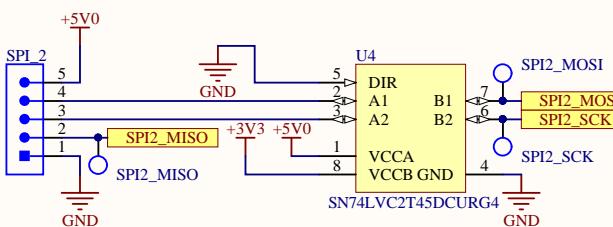
A

## SPI Encoders

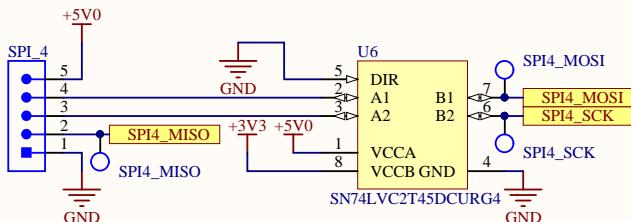
B



Used level shifter because  
MCU SPI connectors are 5V  
tolerant and registers voltages  
greater than 3V3 as high.  
Didn't shift MISO because SPI  
can handle that level of input.



C



D

Title: Arm - SPI Encoders

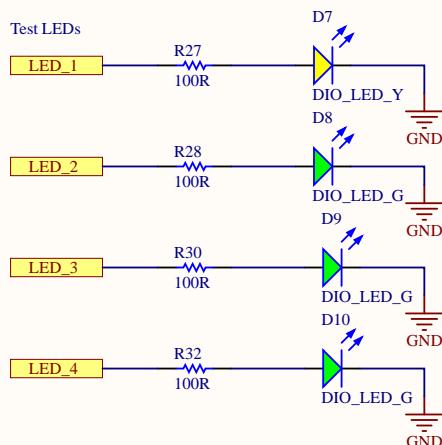
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Date: 2020-01-24

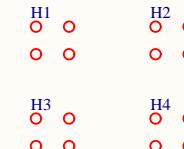
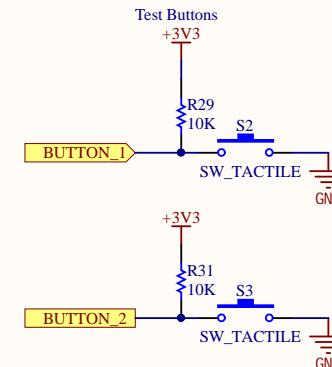
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## Test LEDs



## Test Buttons



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Size: Letter	Drawn By: Noah Chapman		
Date: 2020-01-24		Sheet of	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Arm\Rev1\sch\Support.SchDoc			

