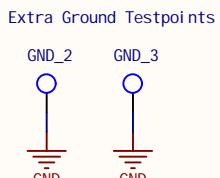
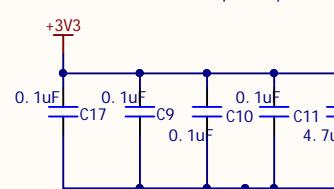


# Test Points

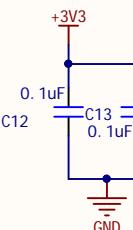
# Decoupling Caps



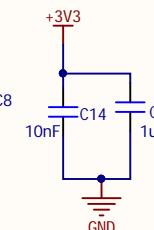
4xVDD pin caps



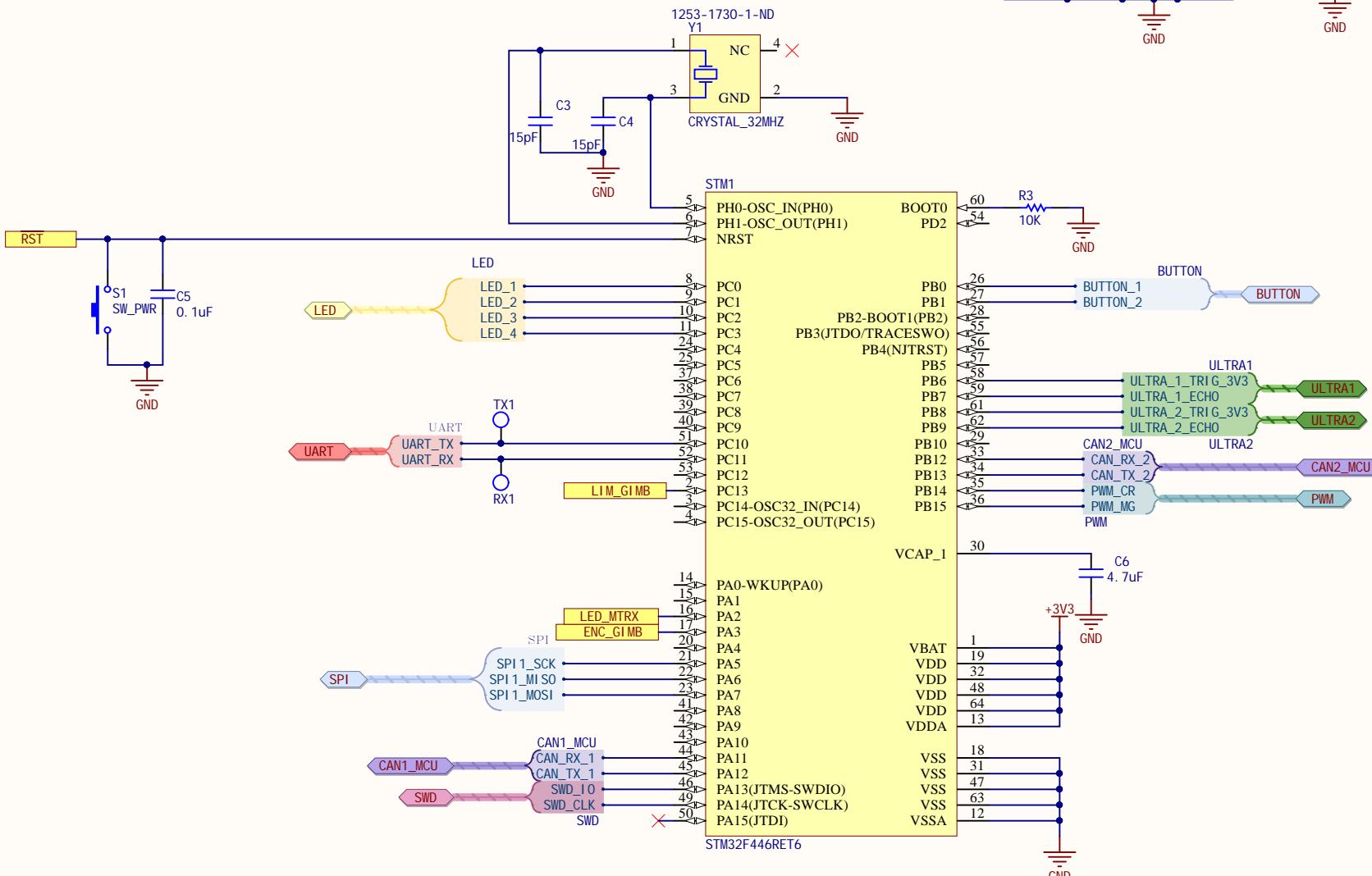
VDDIO pin caps



VDDA pin caps



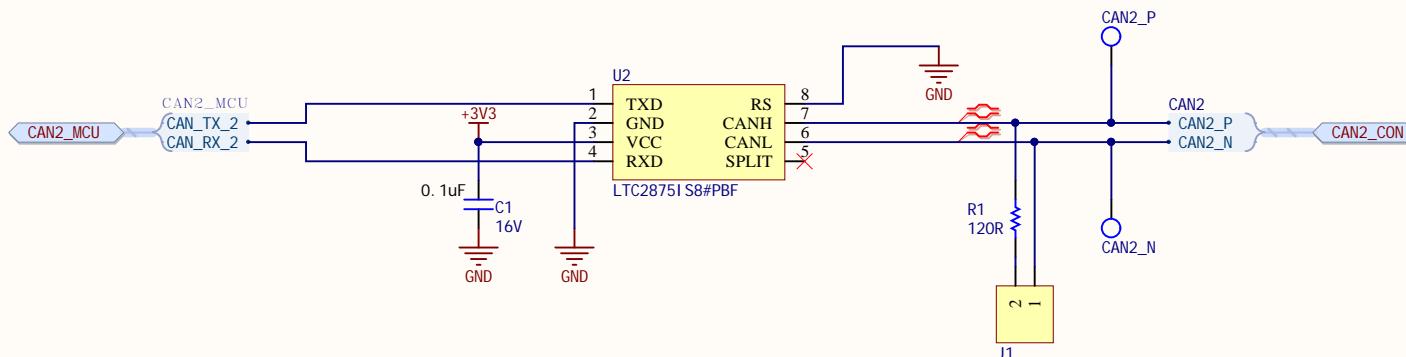
## STM32F446RET6



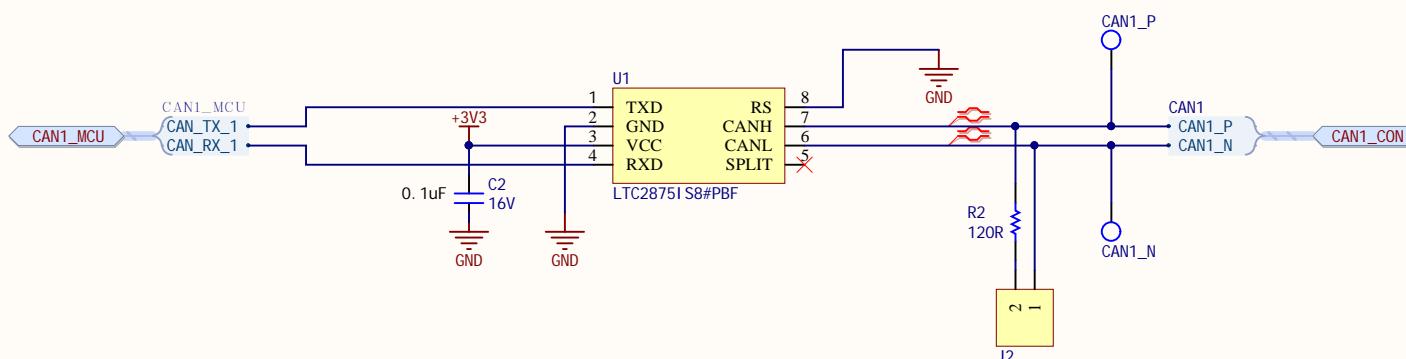
A

## CAN Transceivers

B



C



D

A

A

B

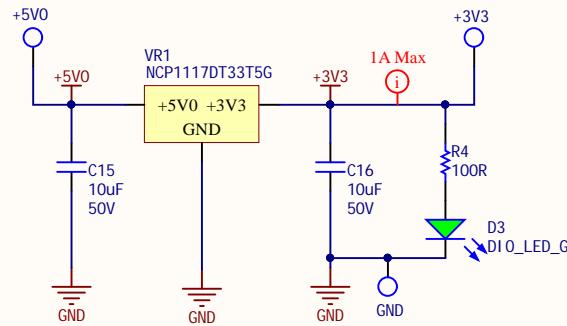
B

C

C

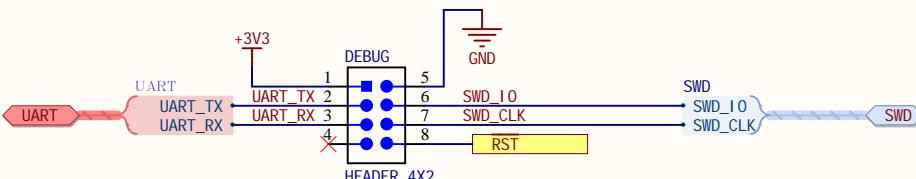
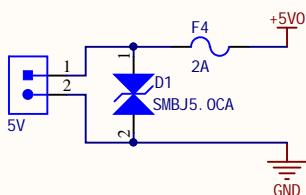
D

D

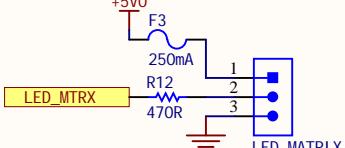


# Debug/Programming

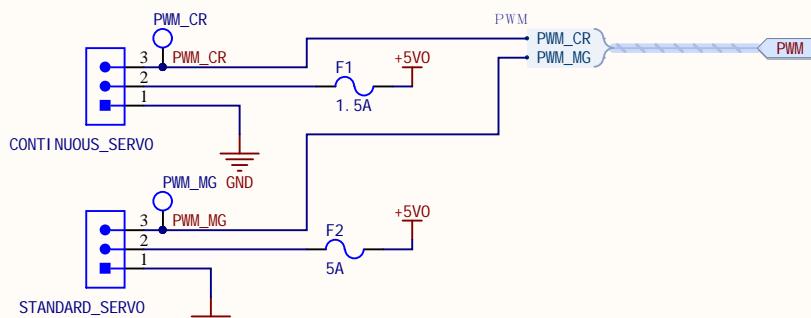
## A Power In



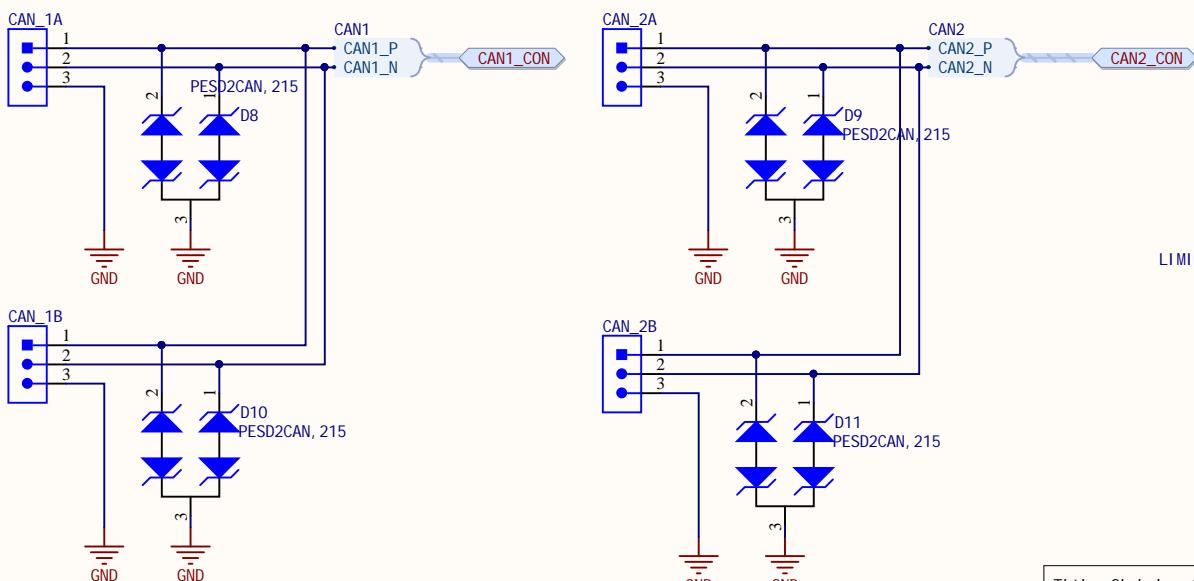
## B LED Matrix



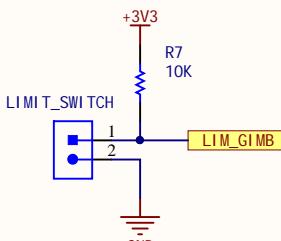
## Servos



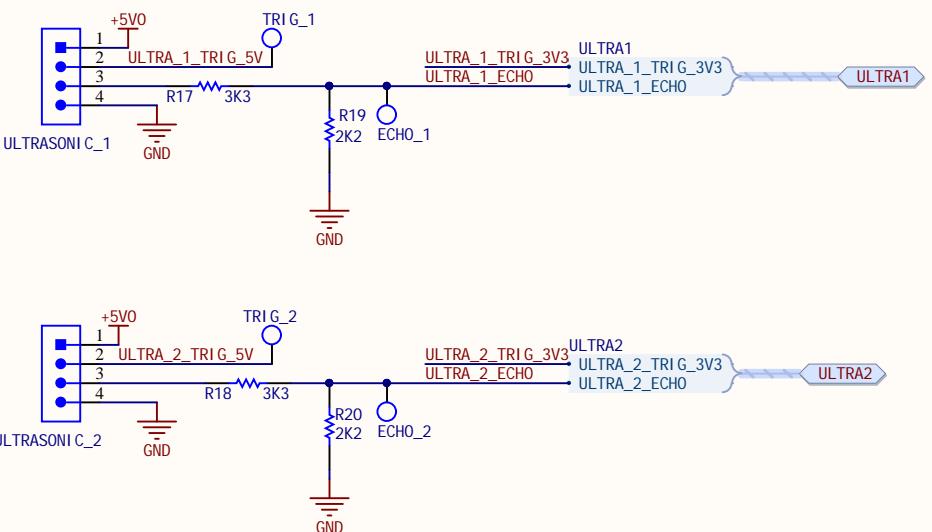
## C CAN Connectors



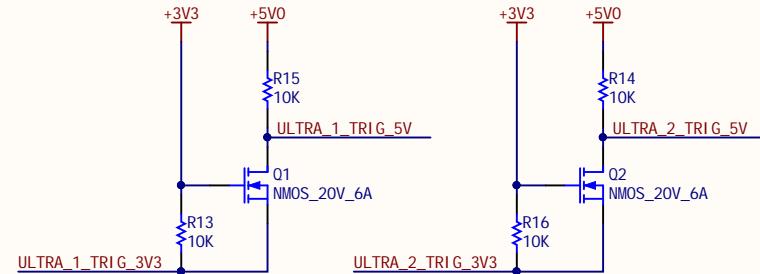
## D Limit Switch



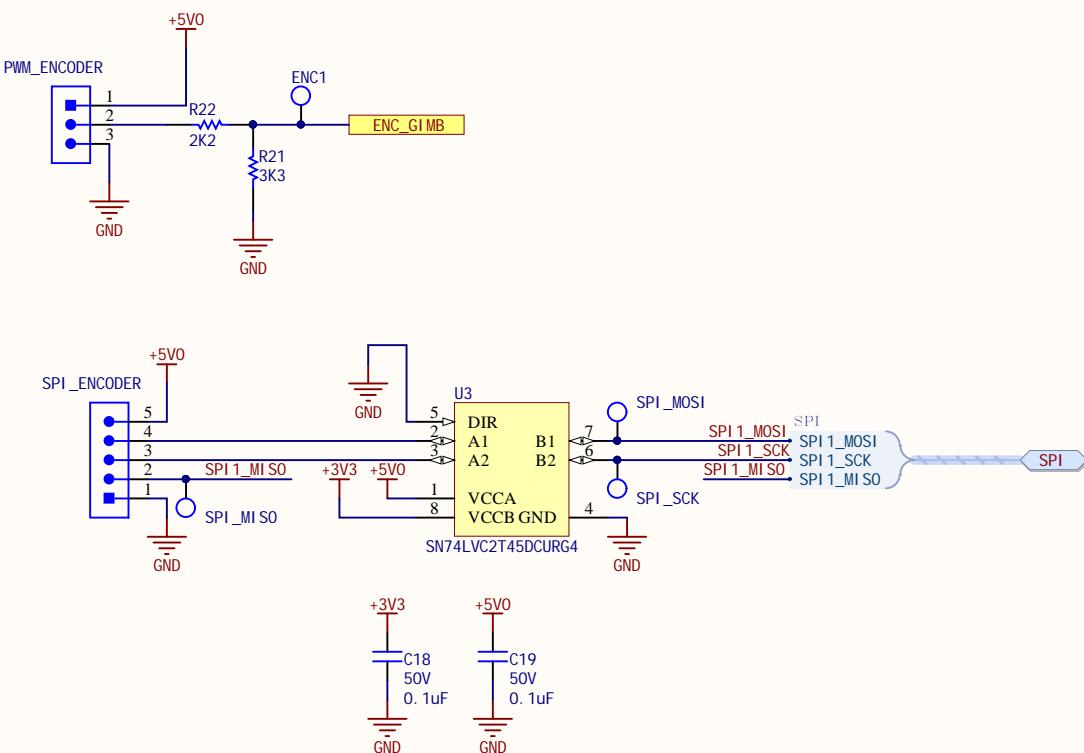
## UI trasonic Sensors



## Level Shifters



## Encoders

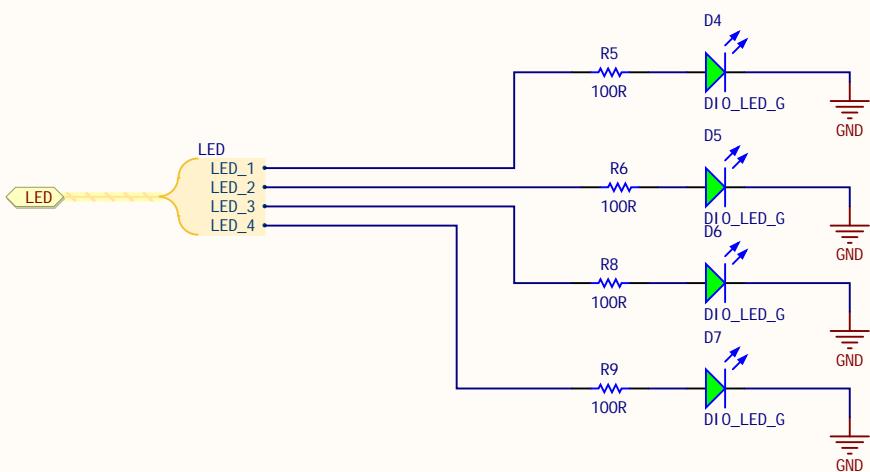


Title Gimbal - Sensors		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: Lance Bantoto	ROBOTICS TEAM
Date: 16/01/20	Sheet 1 of 5	
File: C:\Users\Adrianna\Documents\MarsRover2020-PCB\Projects\Gimbal\Rev1\sch\Sensors.SchDoc		

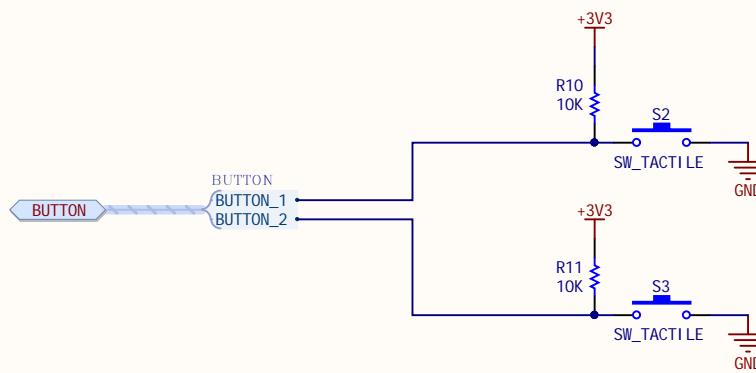
A

A

## Test LEDs



## Test Buttons



MOUNTING\_HOLES MOUNTING\_HOLES

MOUNTING\_HOLES MOUNTING\_HOLES

A

A

B

B

C

C

D

D

