

A

A

B

B

C

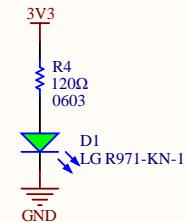
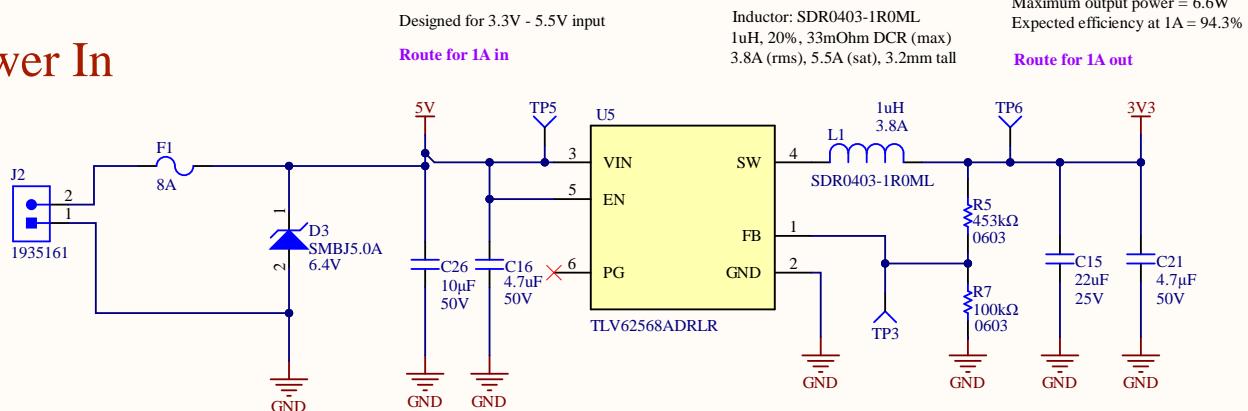
C

D

D

## 5V - 3.3V Buck Converter

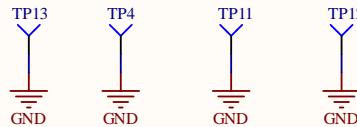
### Power In



**Current Calculations**

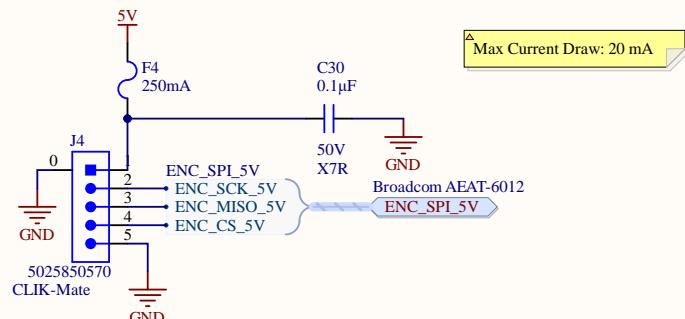
Green LED voltage drop: 2.2V  
 $- I = (3.3-2.2V)/120 = 9.17mA$

### GND Test Points

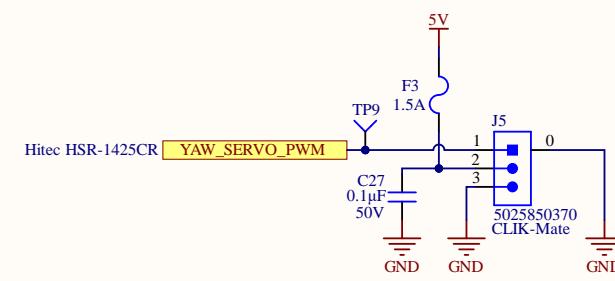


Title Gimbal - Power		UW Robotics
Size: Letter	Drawn By: Aidan Gratton	200 University Avenue Waterloo Ontario Canada N2L 3G6
Date: 2020-10-16	Sheet 1 of 6	
File: C:\Users\lance\GitHub\MarsRover2020-PCB\Projects\Gimbal\Rev2\SH1 - POWER.SchDoc		<b>UW ROBOTICS TEAM</b>

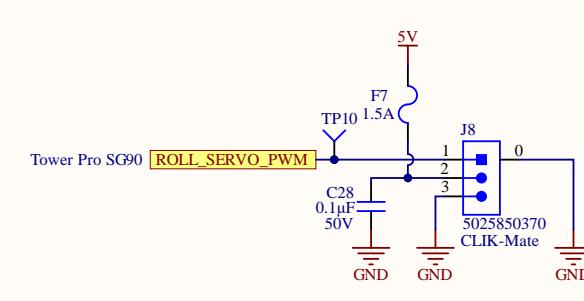
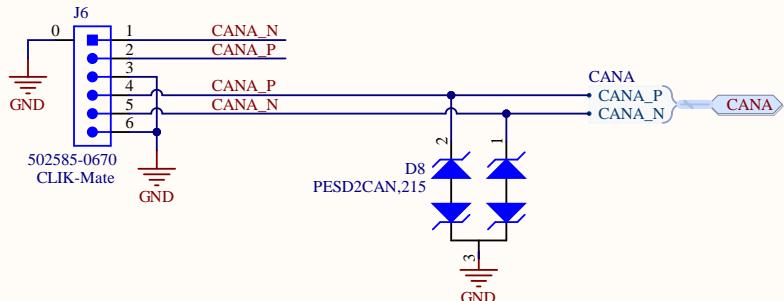
## Broadcom AEAT-6012 Encoder



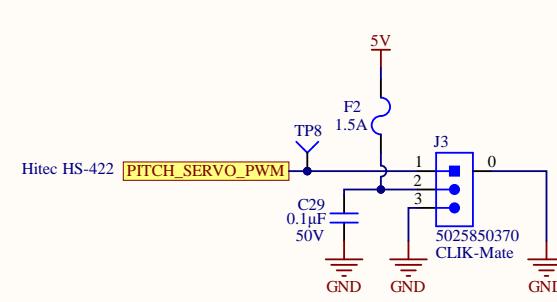
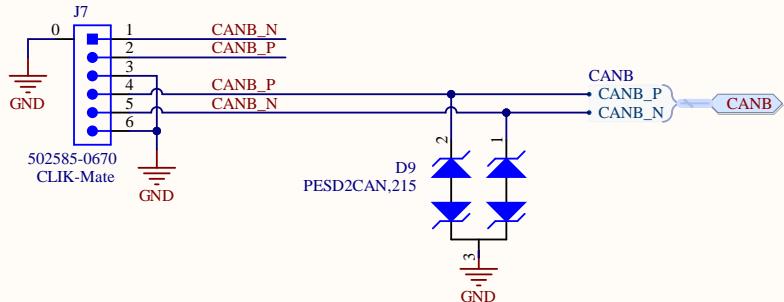
## Servos



## CAN Bus A



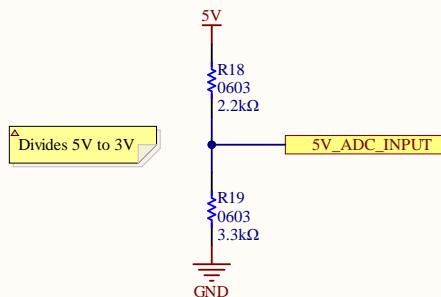
## CAN Bus B



A

A

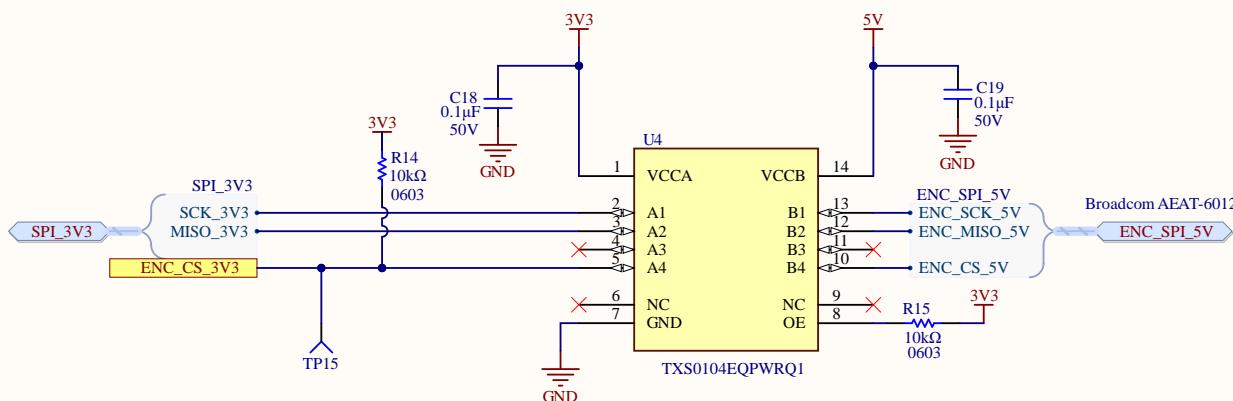
## 5V Rail Monitoring



B

B

## SPI Encoder Level Shifter

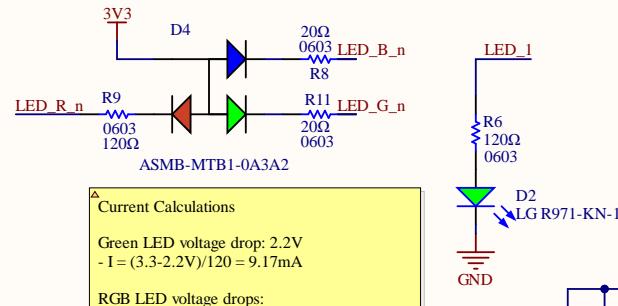


C

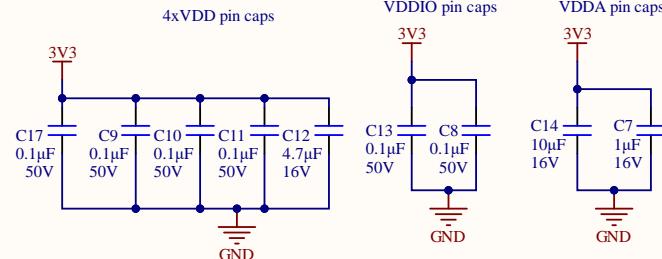
C

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File: C:\Users\lance\GitHub\MarsRover2020-PCB\Projects\Gimbal\Rev2\SH3 - SENSORS.SchDoc		UW ROBOTICS TEAM

# Status/Debug LEDs

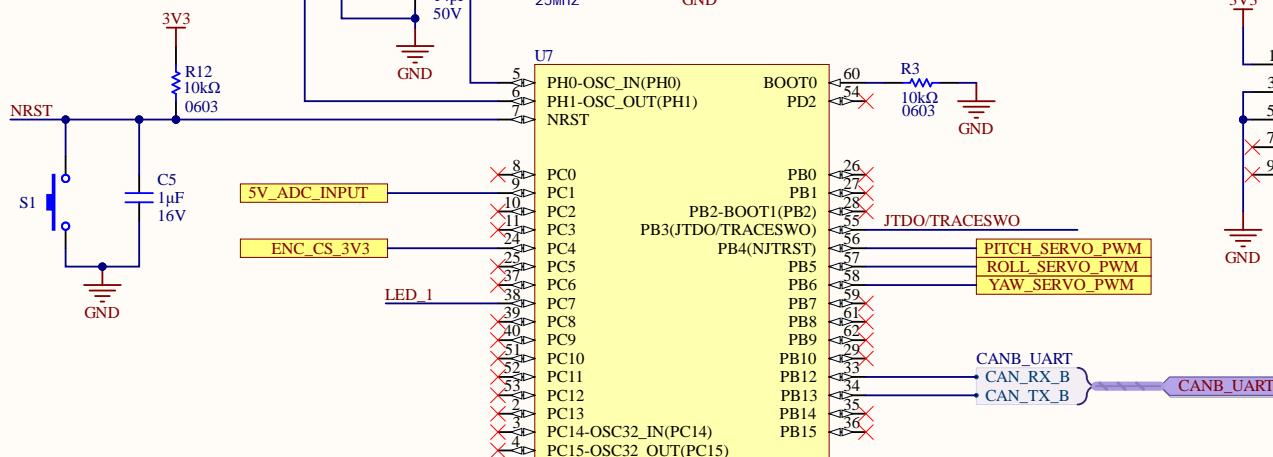


# Decoupling Caps

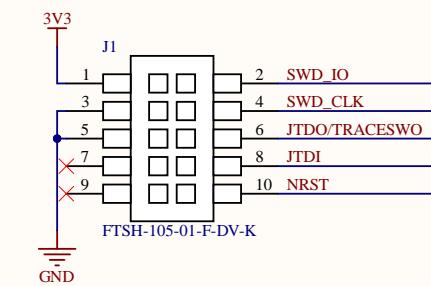


**STM32F446RET6**

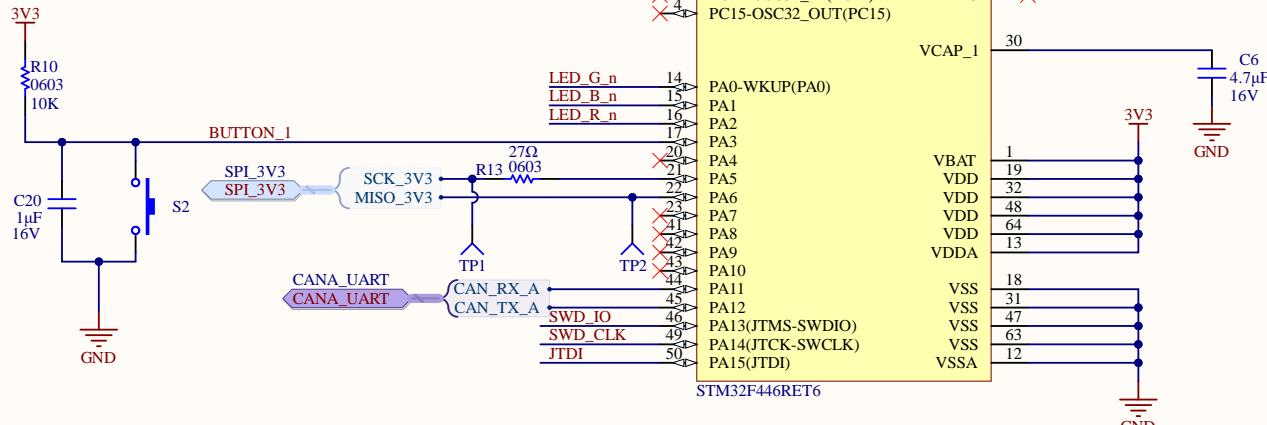
B



# Debug/Programming



C



D

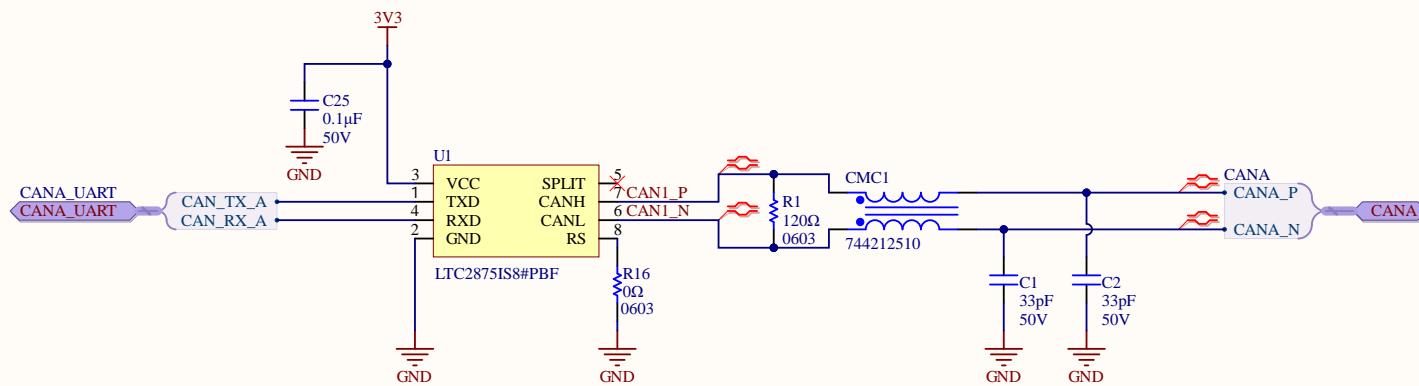
A

A

## CAN Transceivers

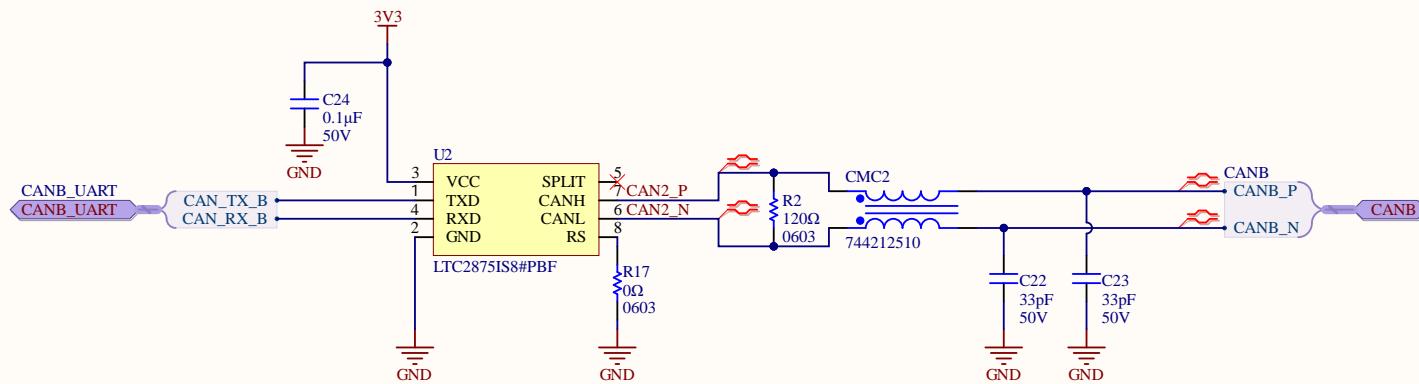
B

B



C

C



D

D

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