

A

A

B

B

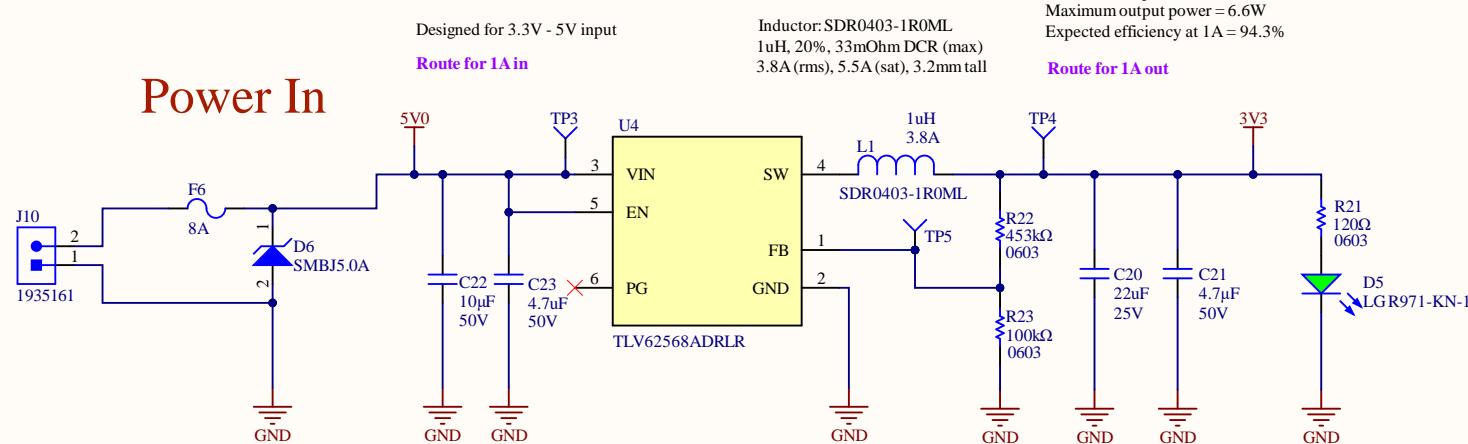
C

C

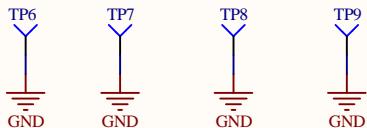
D

D

## 5V - 3.3V Buck Converter



## GND Test Points



## Mounting Holes

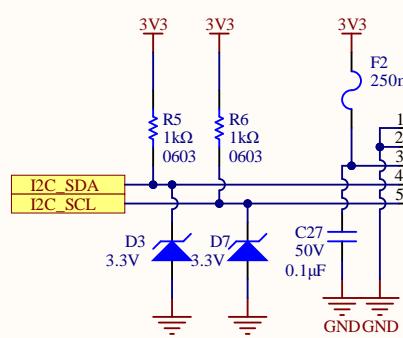


△ Current Calculations

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

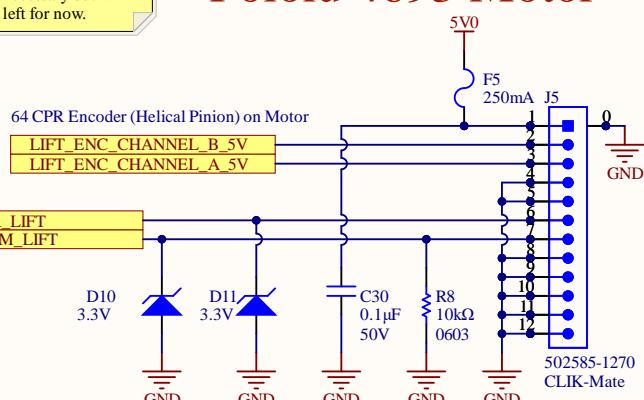
Title: Science - Power	UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: Wolfgang Windholz
Date: 11/2/2020	Sheet 1 of 5
File: C:\Users\Wolfgang.Windholz\OneDrive\Projects\MarsRover2021-hardware\Projects\Science\Rev2\SH1 - PO	UW ROBOTICS TEAM

# STEMMA Moisture Sensor

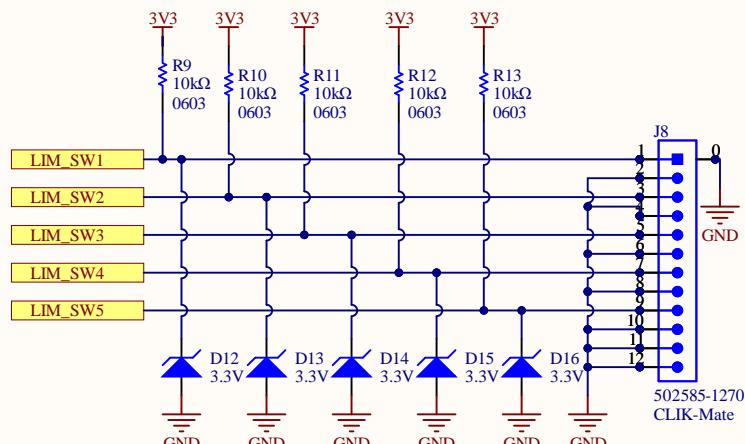


# Servos

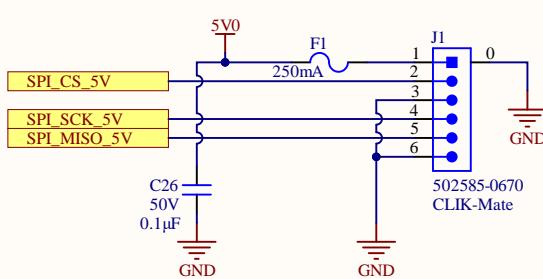
## Pololu 4693 Motor



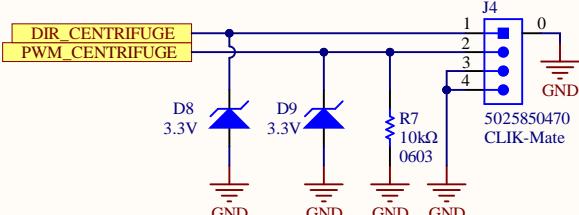
## Limit Switches



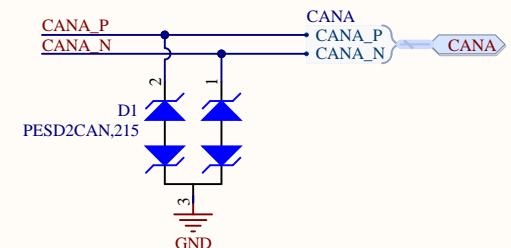
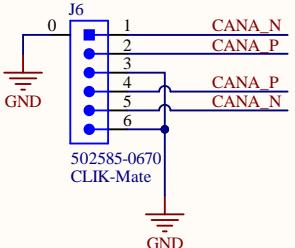
# Broadcom AEAT6012 Encoder



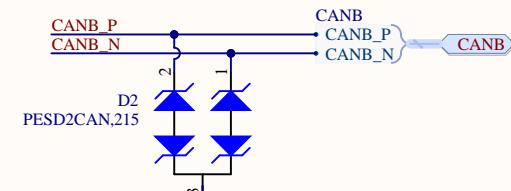
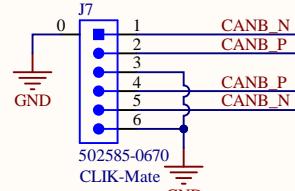
## Pololu 4685 Motor



## CAN BUS A



## CAN BUS B



A

A

B

B

C

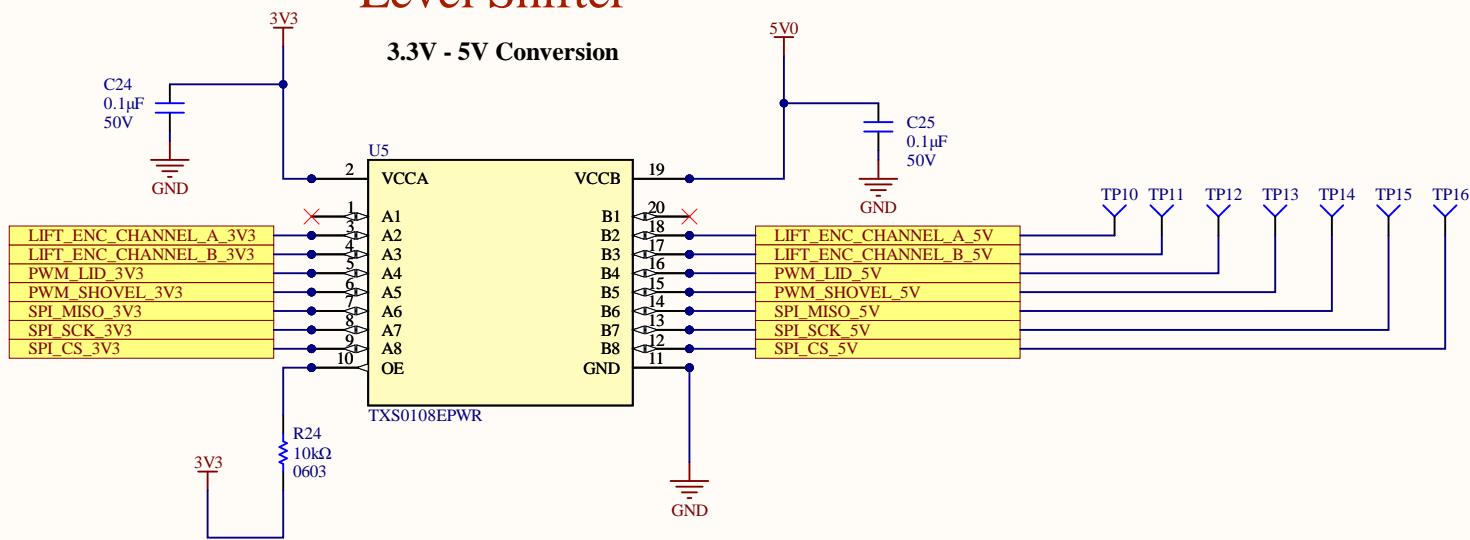
C

D

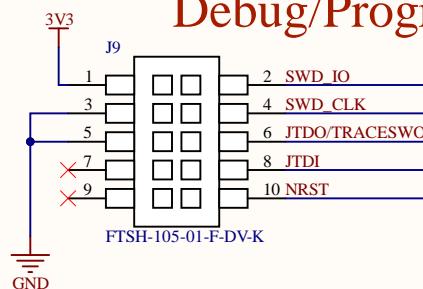
D

## Level Shifter

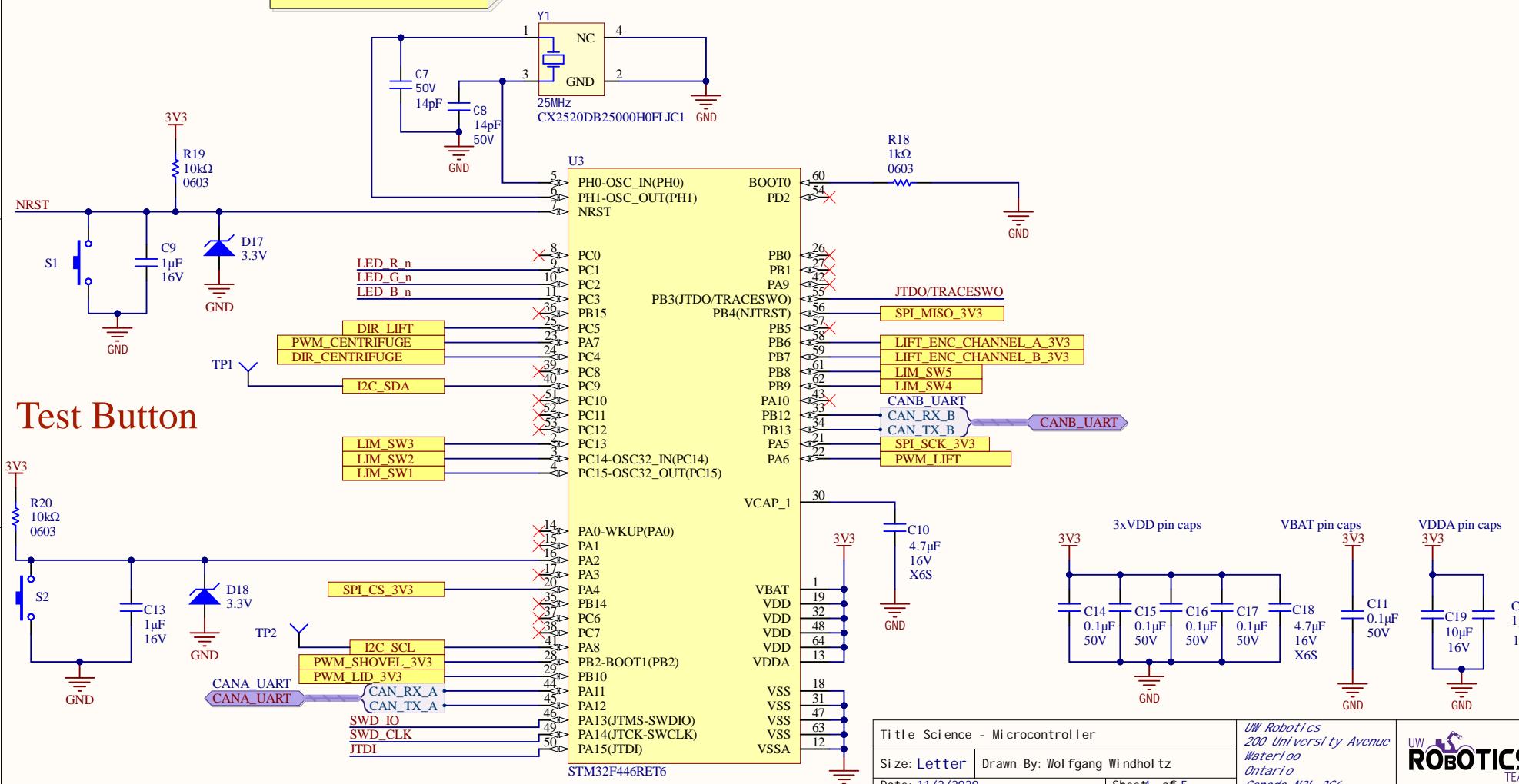
### 3.3V - 5V Conversion



# Debug/Programming



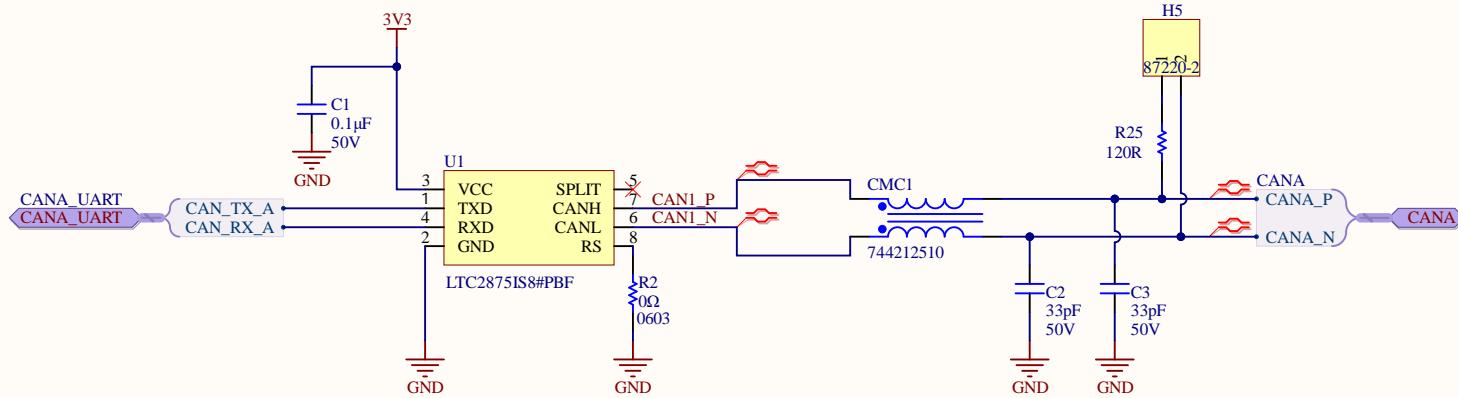
# STM32



A

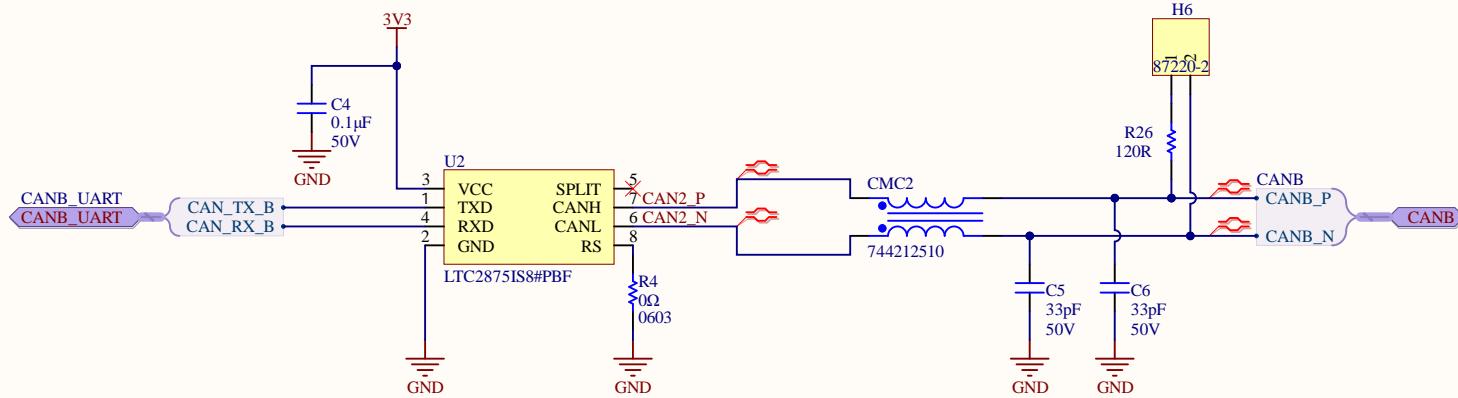
A

## CAN Transceivers



B

B



C

C

Title: Science - CAN		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: Wolfgang Windholz	
Date: 11/2/2020	Sheet 5 of 5	

