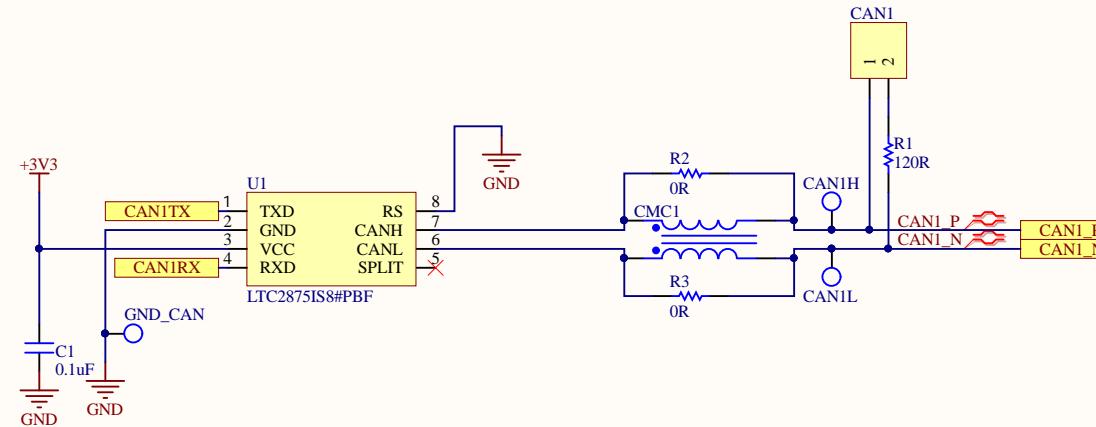
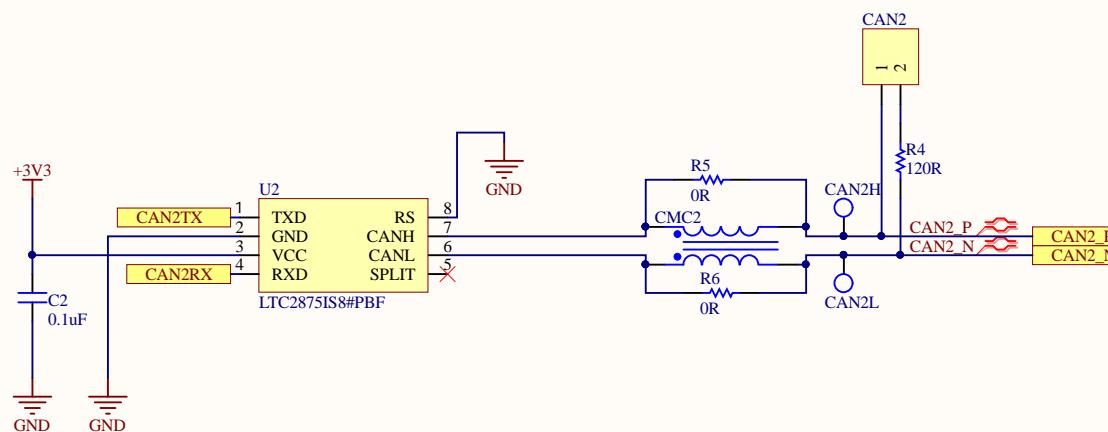


A

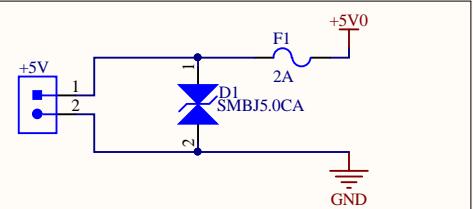


B

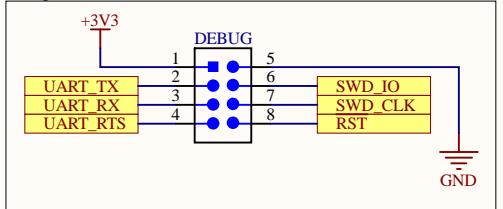


C

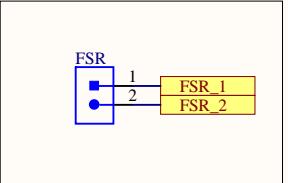
Power Connector



Debug Connector



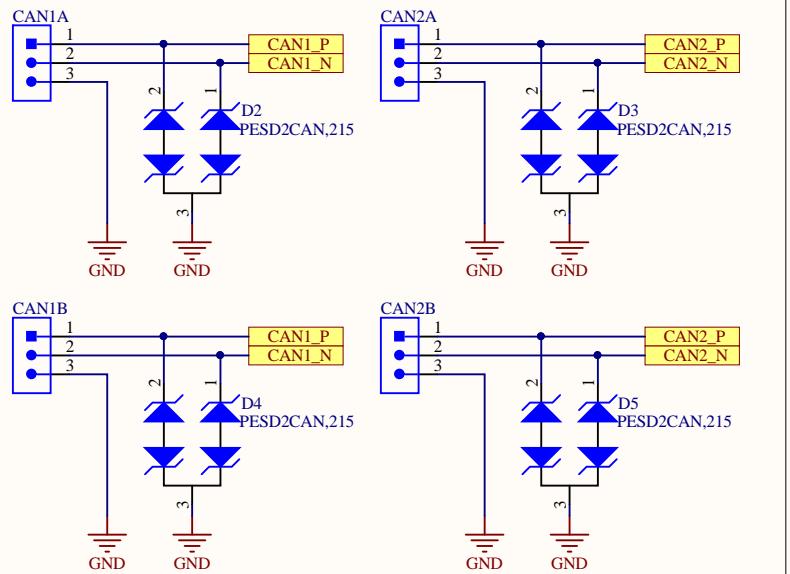
FSR



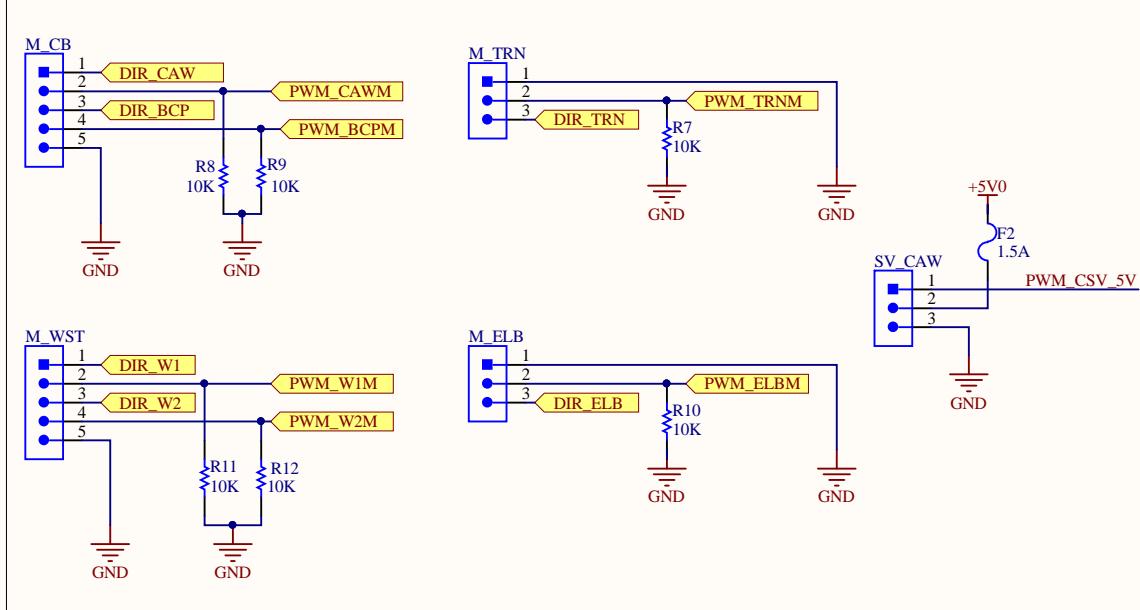
Acronyms Explained

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

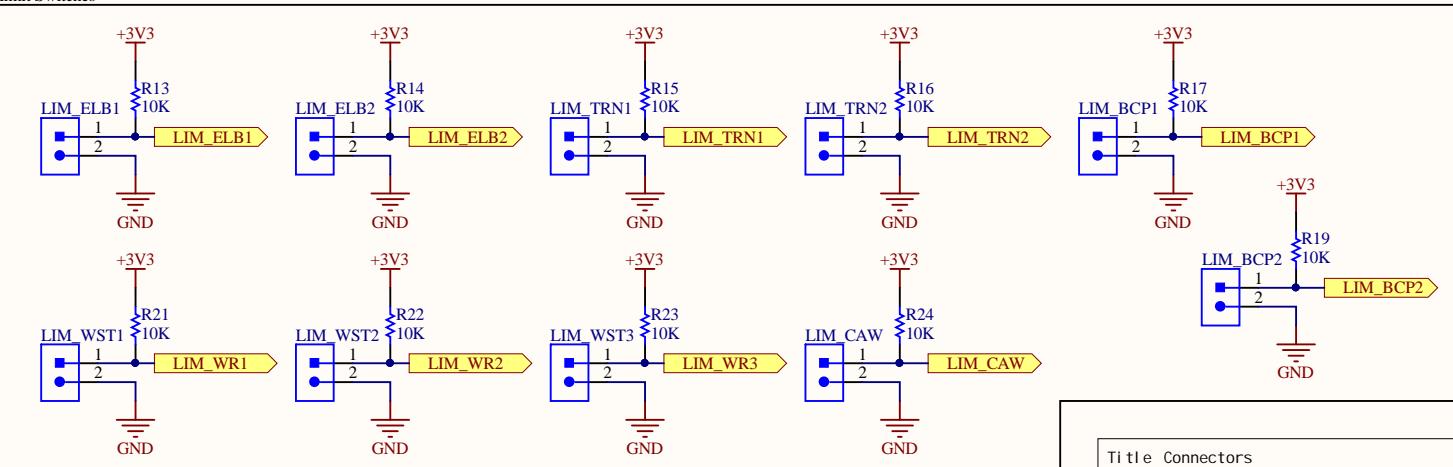
CAN Connections



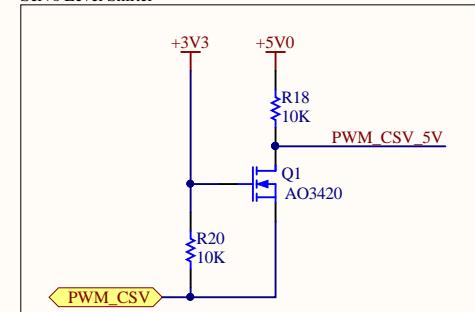
Motors



Limit Switches



Servo Level Shifter



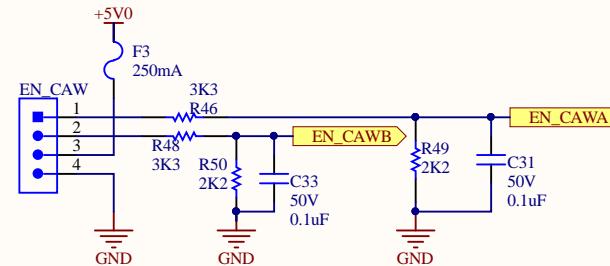
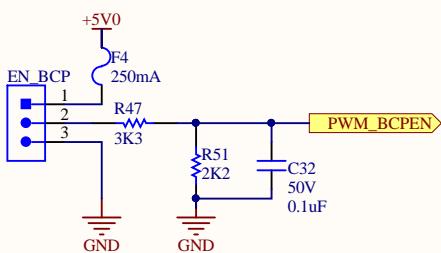
Title Connectors

Size: Letter | Drawn By: Kyle Hong, Noah Chapman
Date: 1/8/2020 | Sheet of
File: C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\Connectors.SchDoc

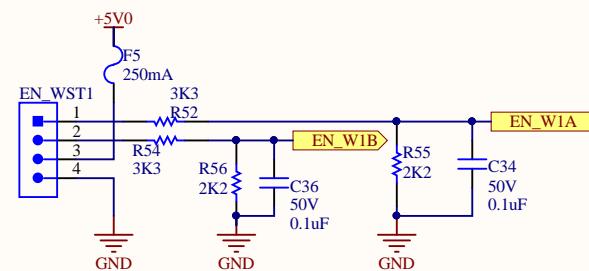
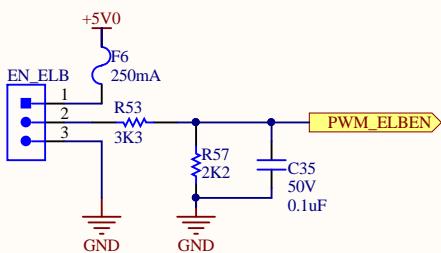
UW Robotics
200 University Avenue
Waterloo
Ontario
Canada N2L 3G6

ROBOTICS
TEAM

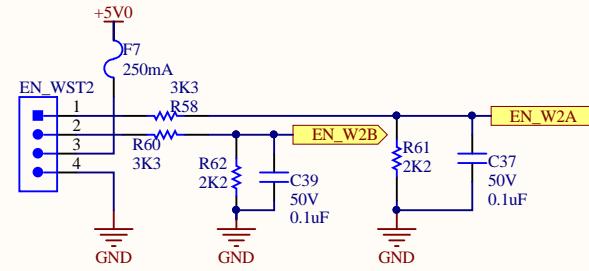
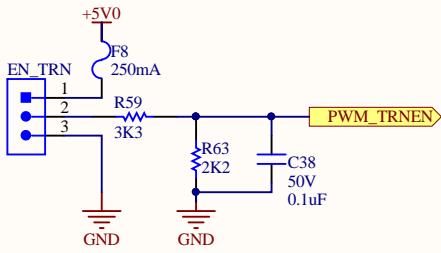
A



B



C



D

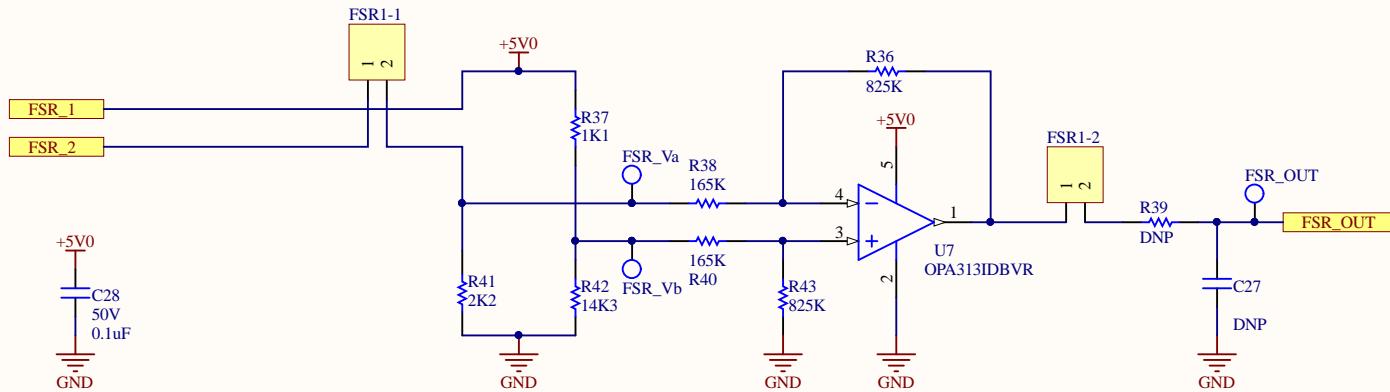
Title	Encoders	*	*
Size:	Letter	Drawn By: Kyle Hong	*
Date:	1/8/2020	Sheet*	*
File:	C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\Encoders.SchDoc		

A

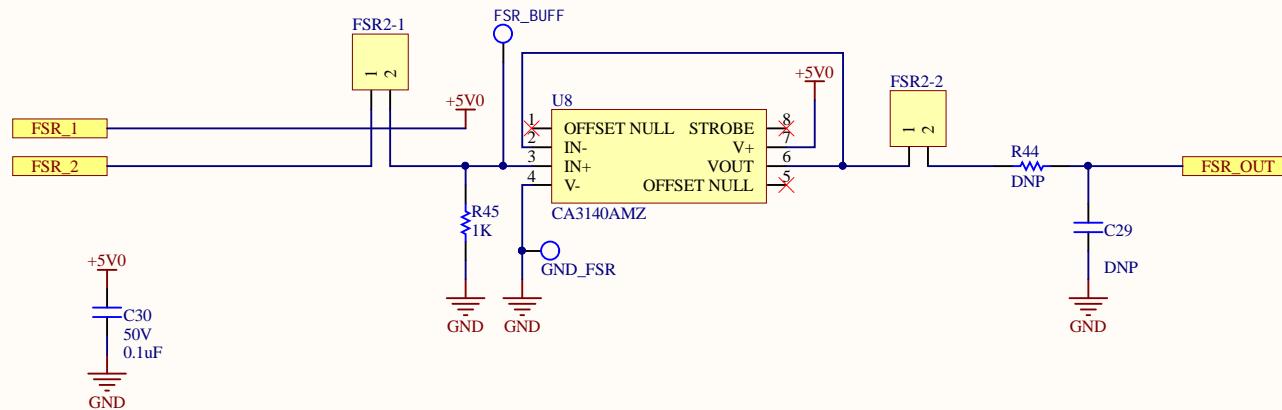
Links to calculations and documentation

<https://docs.google.com/document/d/1rw19DyF2suYmOmllnorCrfqnUpDln50-sqe5KjQKnCs/edit>

<https://docs.google.com/spreadsheets/d/1JzRwpCH-aMdlyAMP5zl6xFD8GIuJzvmOR8Y5Kzd1RN0/edit#gid=0>



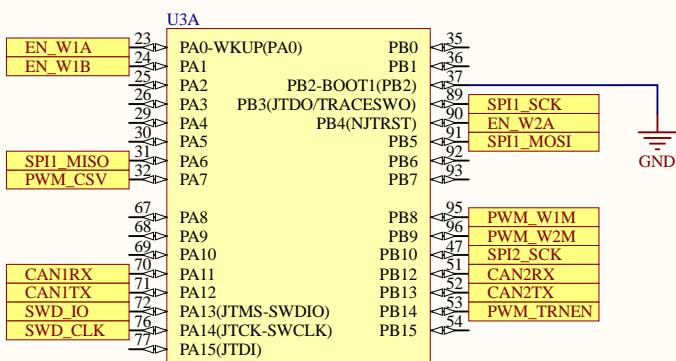
B



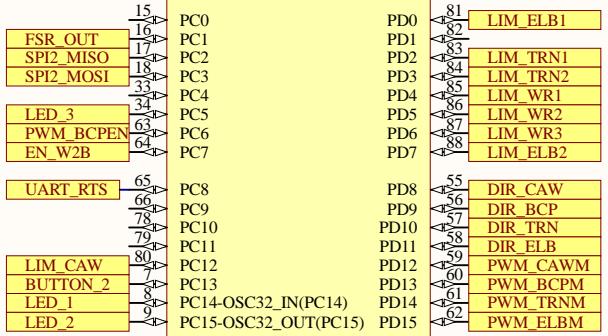
C

Title Claw Force Sensor		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: K. Hong, N. Chapman, A. Ebrahimi	
Date: 1/8/2020	Sheet * of *	
File: C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\FSR.SchDoc		UW ROBOTICS TEAM

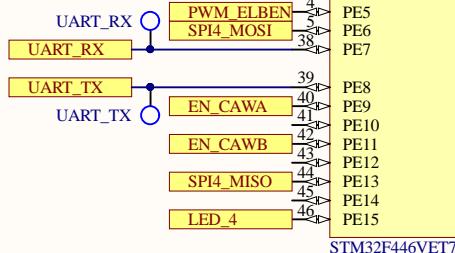
A



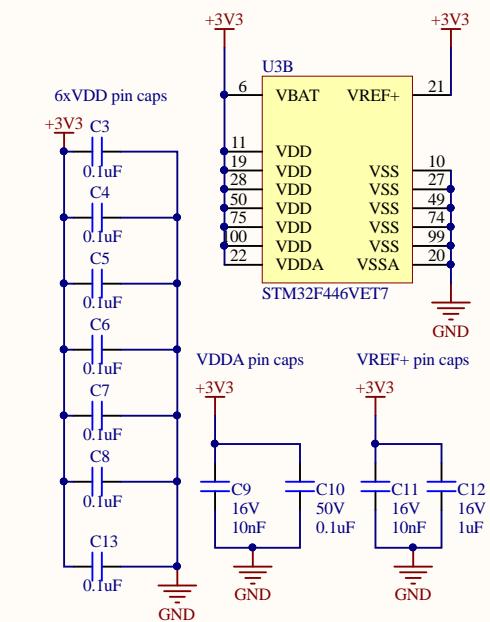
B



C



D

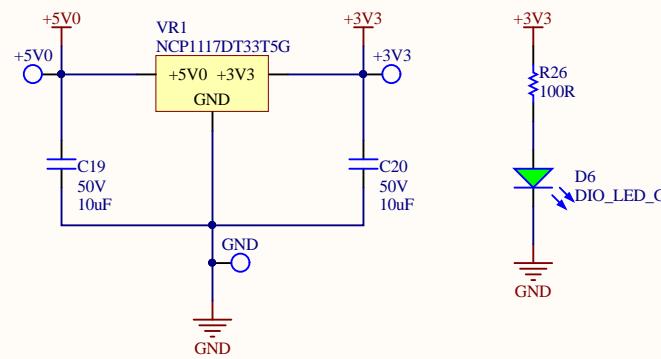


A

B

C

D

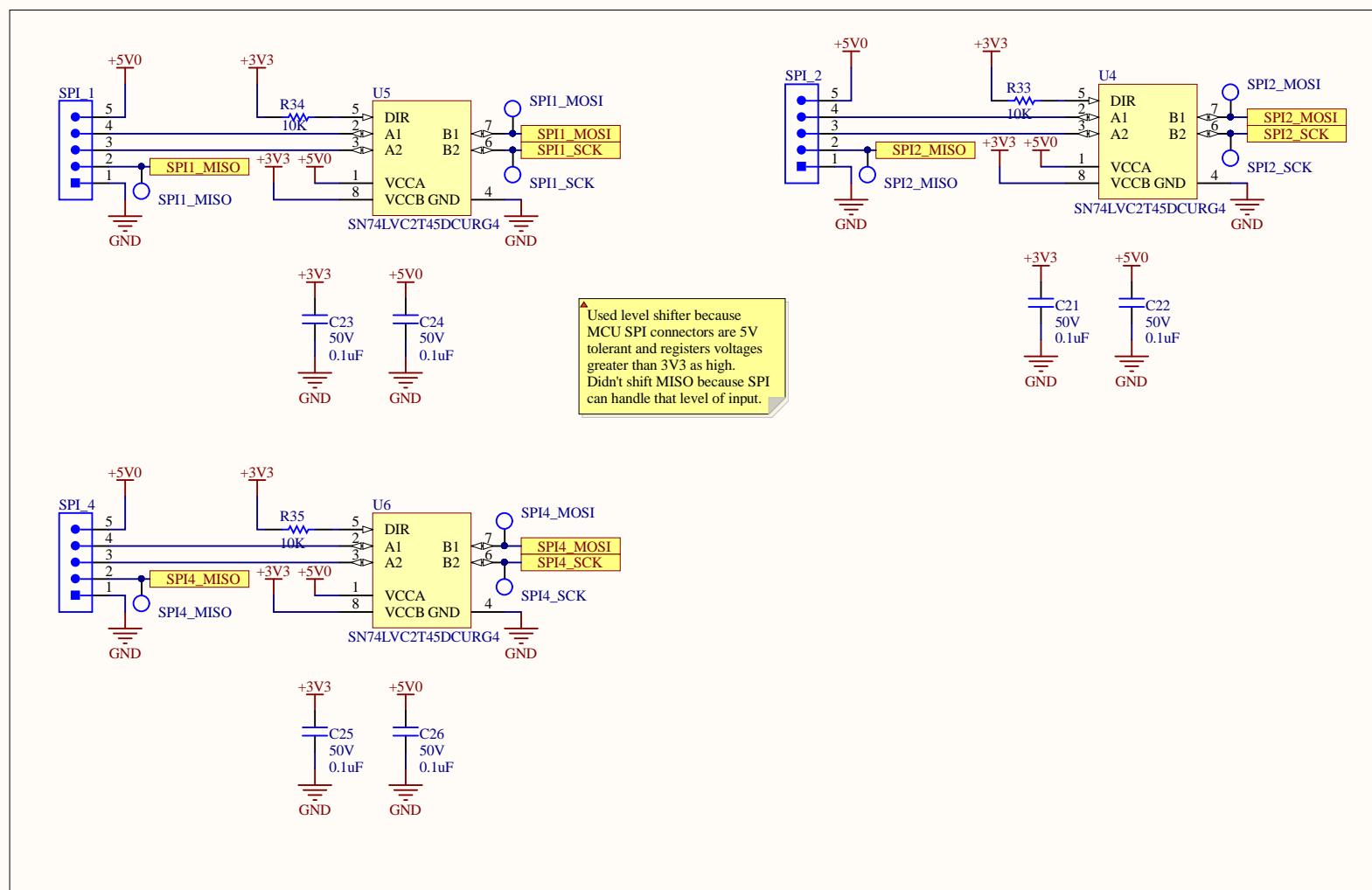


Title Power		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6	
Size: Letter Drawn By: Kyle Hong			
Date: 1/8/2020 Sheet of 1			
File: C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\POWER.SchDoc			

A

A

SPI Connectors



Title SPI Connectors

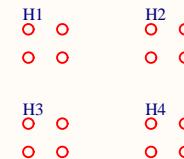
Size: Letter | Drawn By: Noah Chapman

Date: 1/8/2020

Sheet * of *

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





A

A

B

B

C

C

D

D

