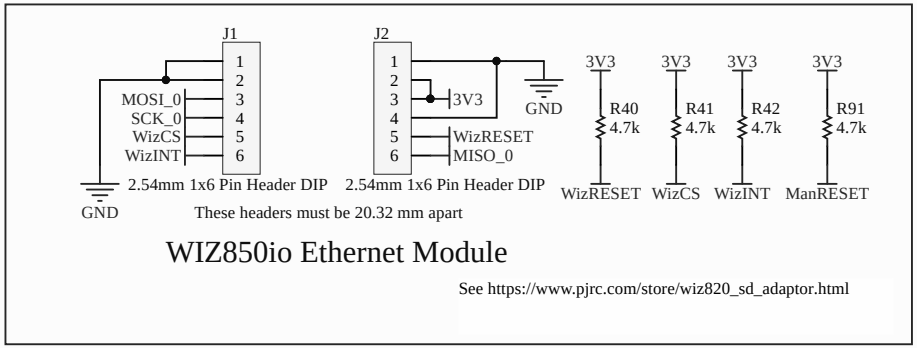
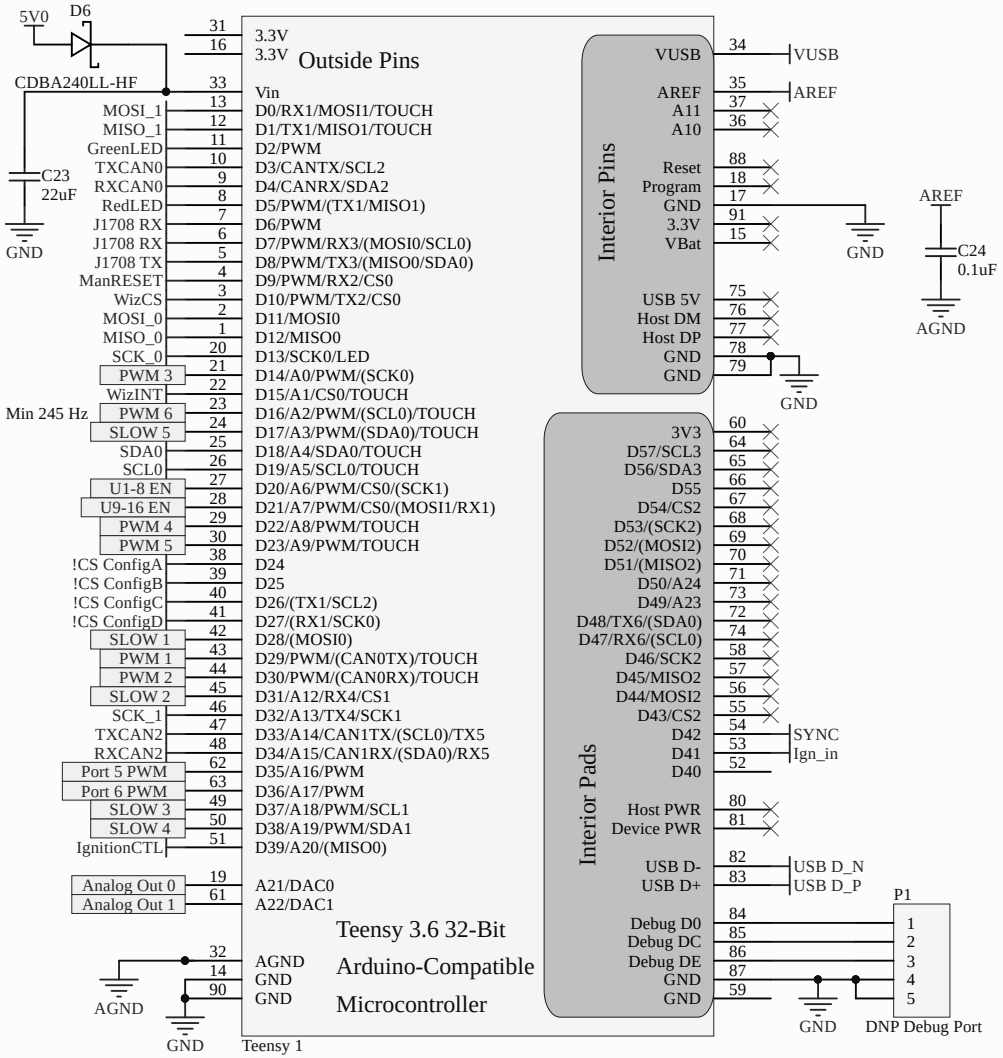
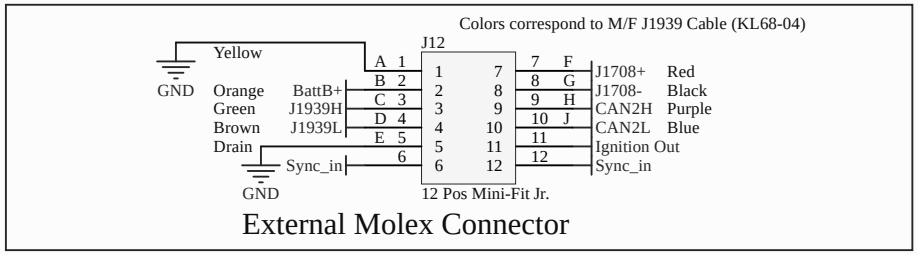


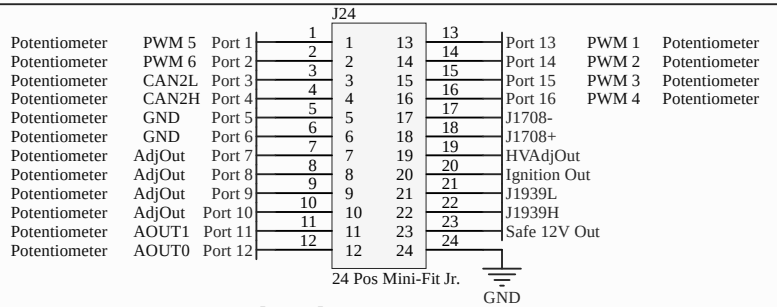
WIZ850io Ethernet Module

See https://www.pjrc.com/store/wiz820_sd_adaptor.html

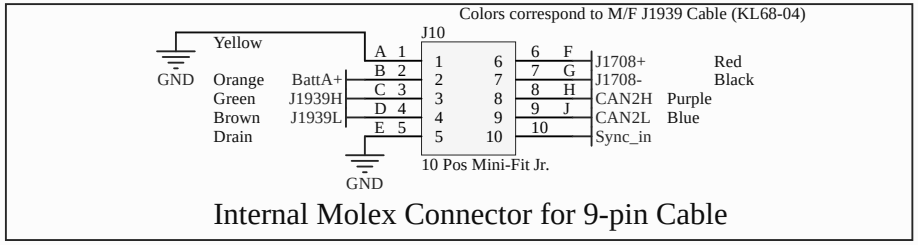




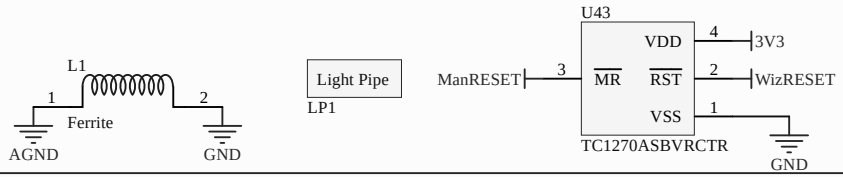
External Molex Connector

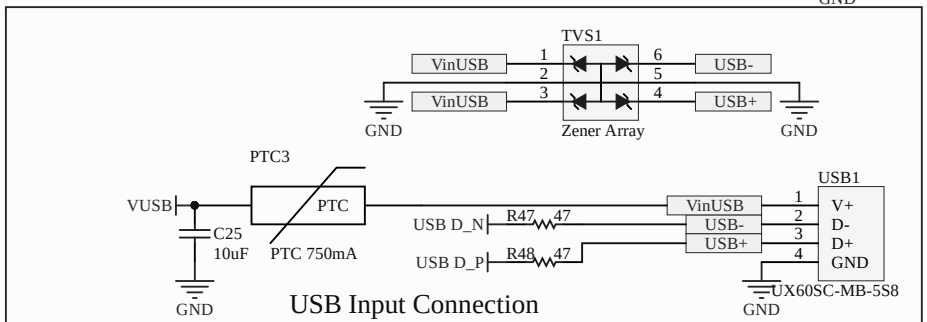


Exposed Molex Connector



Internal Molex Connector for 9-pin Cable





USB Input Connection

Title: ***Smart Sensor Simulator 3***			*Dr. Jeremy Daily* *Mechanical Engineering* *The University of Tulsa* *800 S. Tucker Dr.* *Tulsa, OK 74104*
Subtitle: Teensy 3.6 Connections		Revision: 1	
Date: 5/11/2018	Time: 7:14:36 AM	Size: Letter	Sheet 1 of 6
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\Teensy Connections for T to E.SchDoc			

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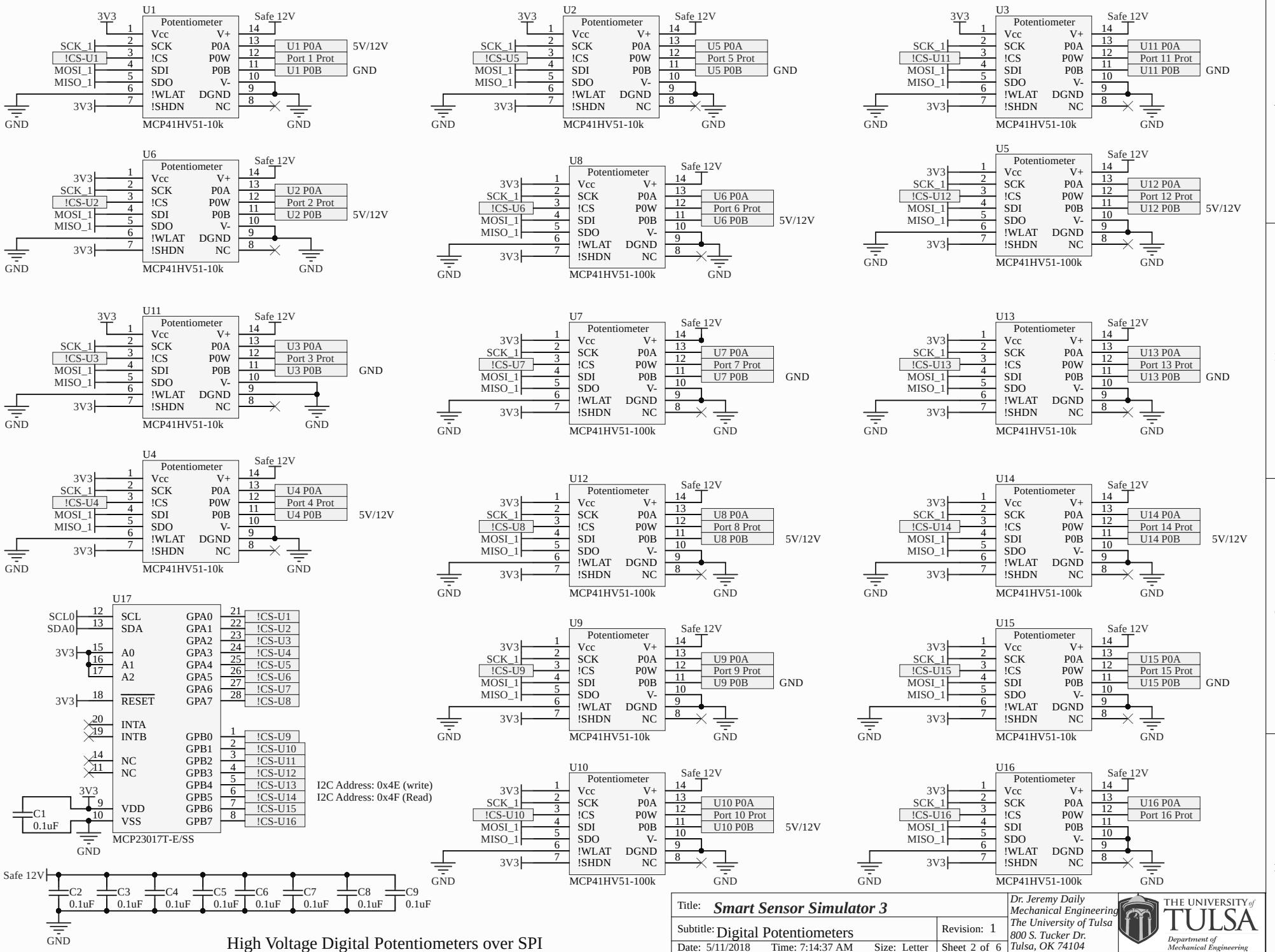
Department of Mechanical Engineering



High Voltage Digital Potentiometers over SPI

Title: ***Smart Sensor Simulator 3***		
Subtitle: Digital Potentiometers	Revision: 1	
Date: 5/11/2018 Time: 7:14:37 AM Size: Letter	Sheet 2 of 6	
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\High Voltage Digital Pots for T to E.SchDoc		

Dr. Jeremy Daily
Mechanical Engineering
The University of Tulsa
800 S. Tucker Dr.
Tulsa, OK 74104

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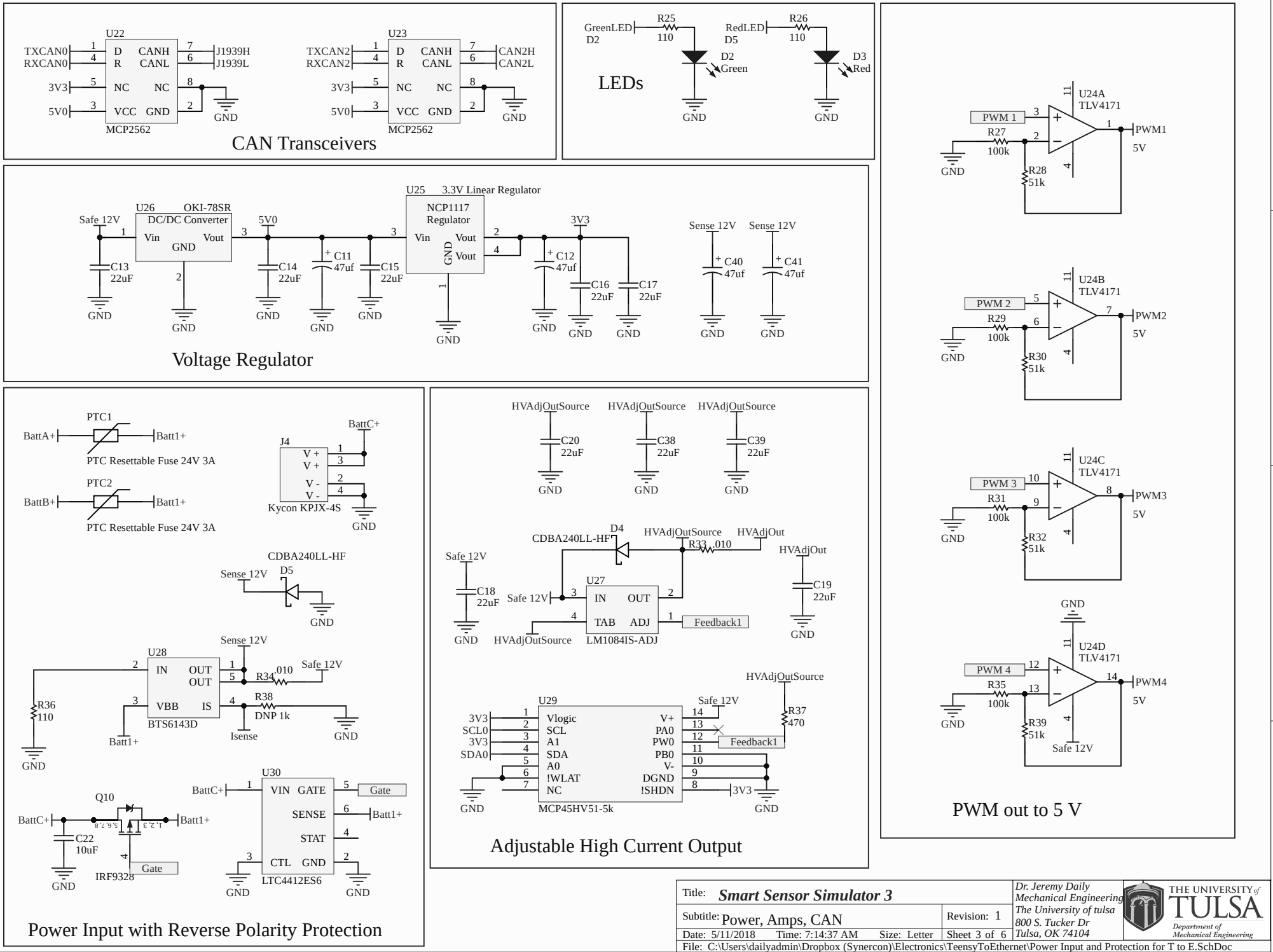

Title:	***Smart Sensor Simulator 3***		*Dr. Jeremy Daily* *Mechanical Engineering* *The University of tulsa* *800 S. Tucker Dr* *Tulsa, OK 74104*
Subtitle:	Power, Amps, CAN	Revision: 1	
Date: 5/11/2018	Time: 7:14:37 AM	Size: Letter	Sheet 3 of 6
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\Power Input and Protection for T to E.SchDoc			

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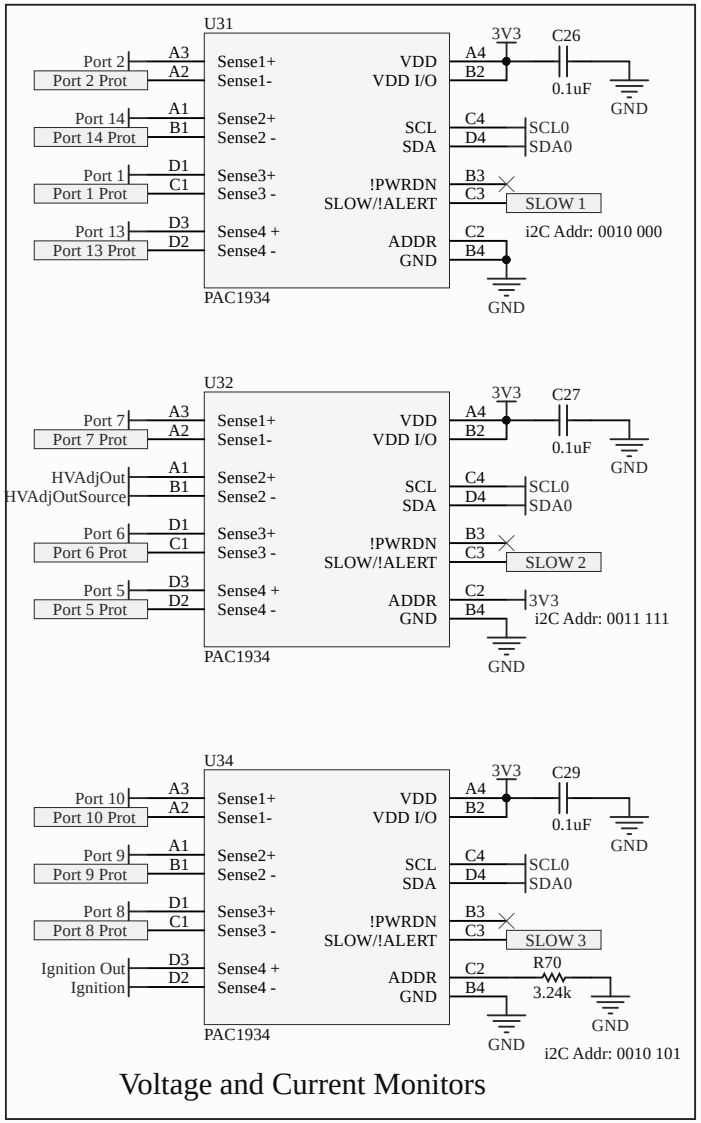

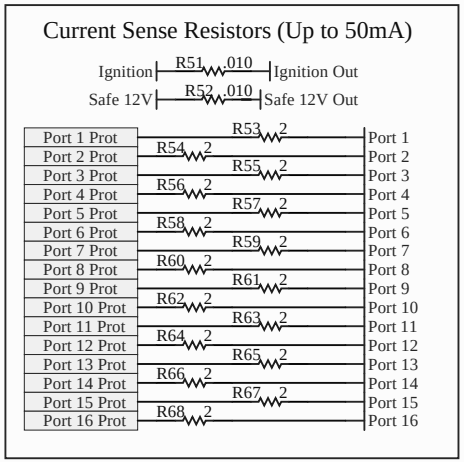

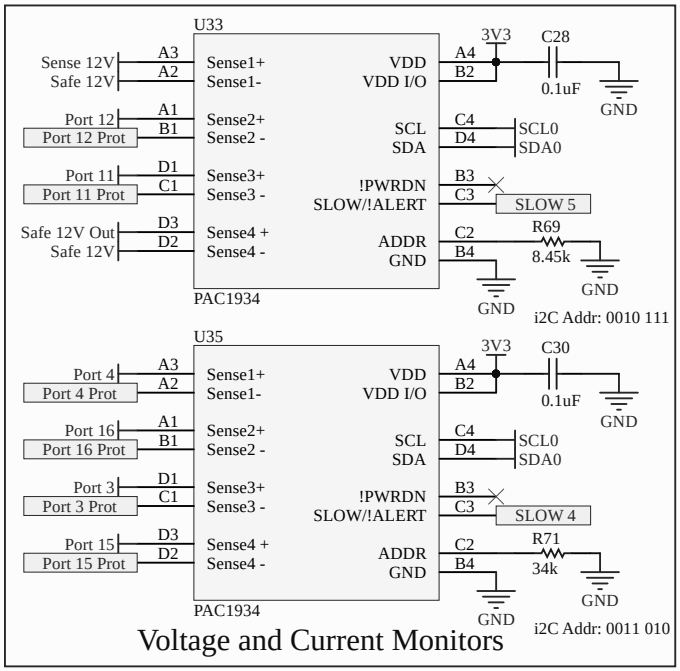

Title: ***Smart Sensor Simulator 3***			*Dr. Jeremy Daily* *Mechanical Engineering* *The University of Tulsa* *800 S. Tucker Dr* *Tulsa, OK 74104*
Subtitle: Voltage and Power Sensing		Revision: 1	
Date: 5/11/2018	Time: 7:14:37 AM Size: Letter	Sheet 4 of 6	
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\Grounds and Sensing.SchDoc			

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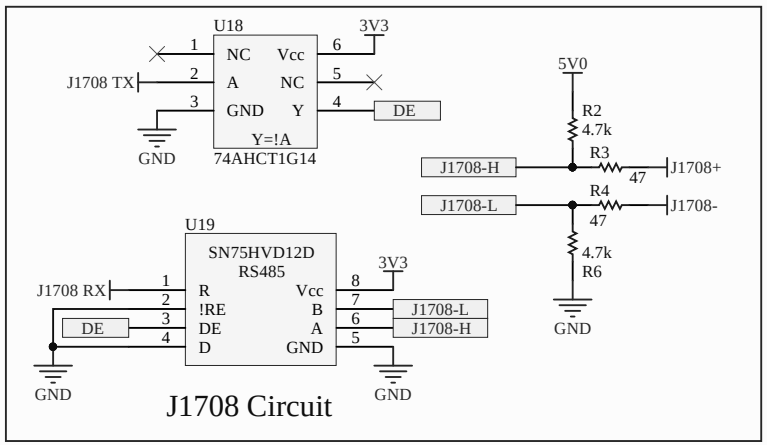
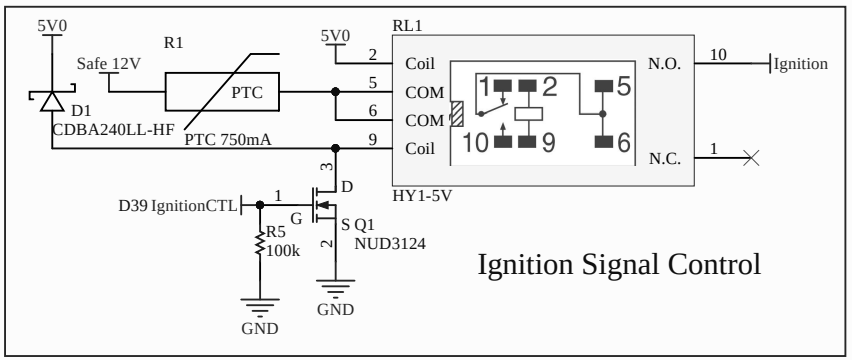
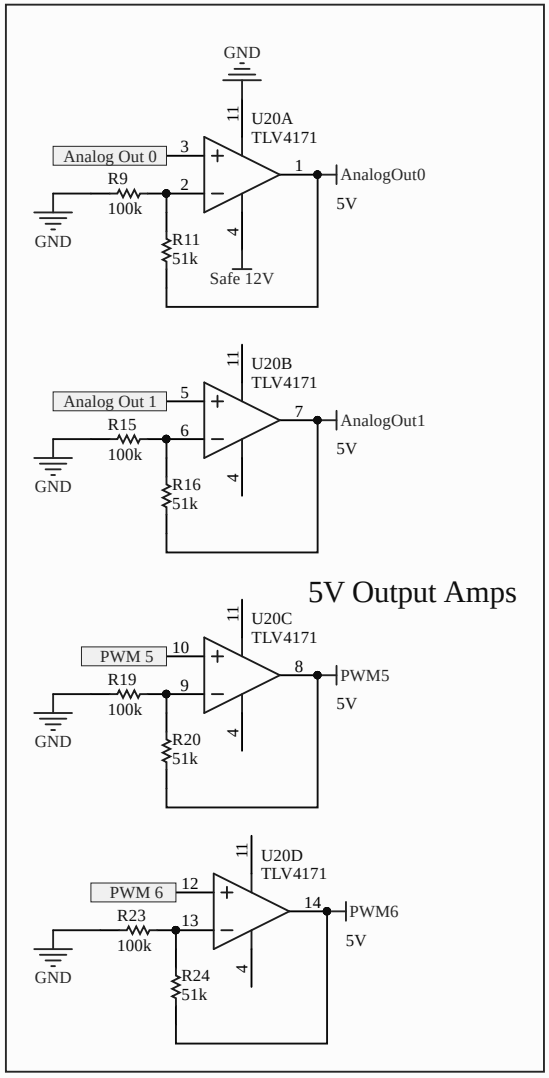


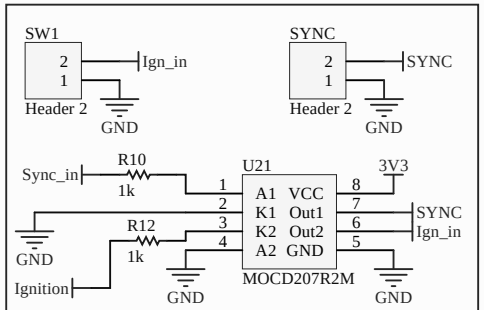
J1708 Circuit



Ignition Signal Control

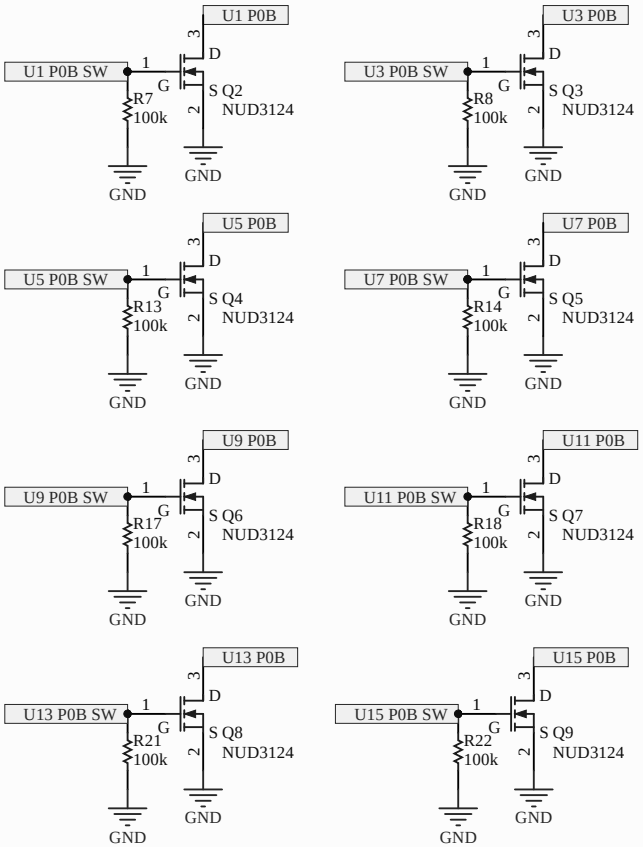


5V Output Amps



Optically Isolated 12V Inputs

Note: For the Fairchild/ON Semi MOCD Opto-isolator, Pin 3 is Anode 2 and Pin 4 is Cathode 2. See https://www.fairchildsemi.com/datasheets/MO/MOCD208M.pdf



Connect Potentiometers to Ground

Title: ***Smart Sensor Simulator 3***			*Dr. Jeremy Daily* *Mechanical Engineering* *The University of Tulsa* *800 S. Tucker Dr* *Tulsa, OK 74104*
Subtitle: J1708, Ignition, Amps, Grounds		Revision: 1	
Date: 5/11/2018	Time: 7:14:37 AM	Size: Letter	Sheet 5 of 6
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\J1708 Ignition for T to E.SchDoc			

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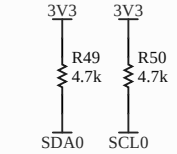
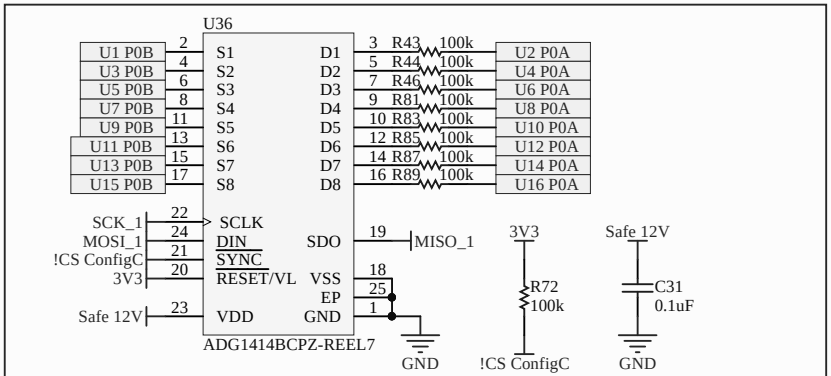
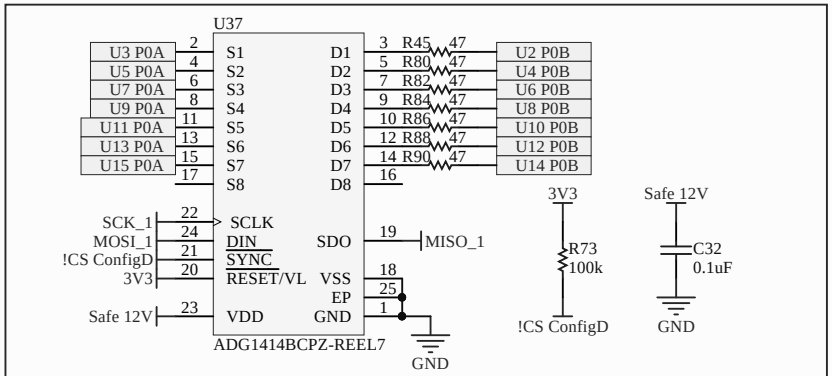


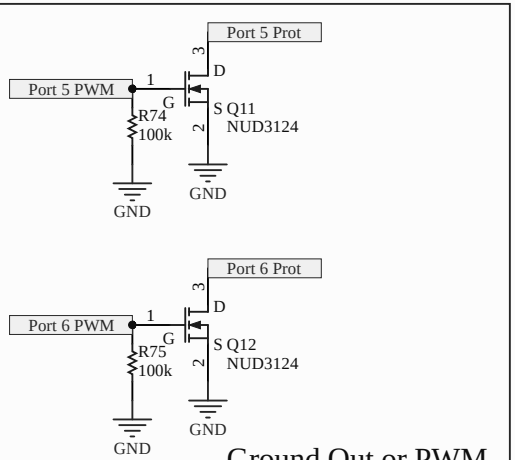
i2C Pullup Resistors



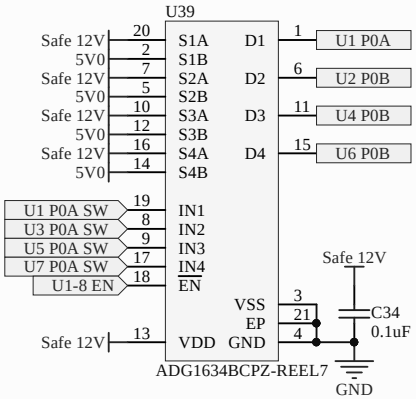
Connecting Switch

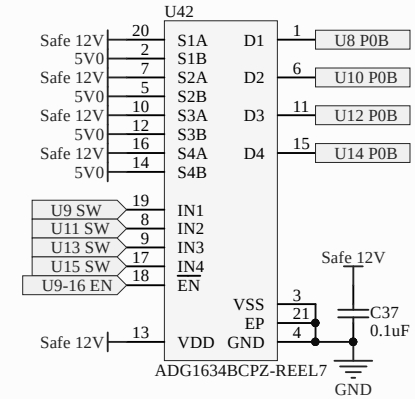


Connecting Switch

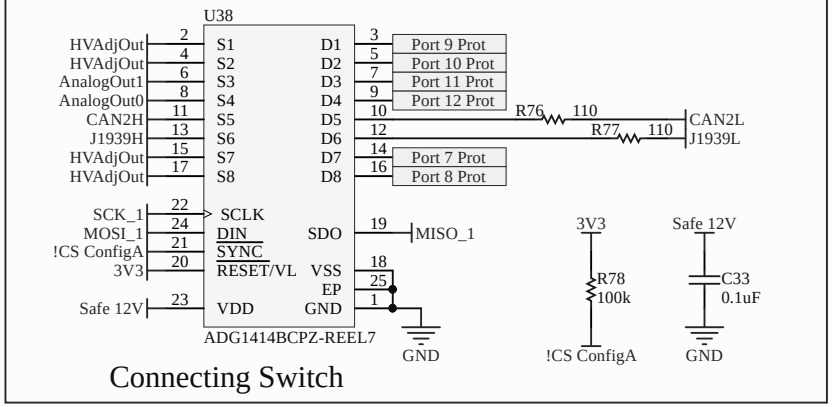


Ground Out or PWM

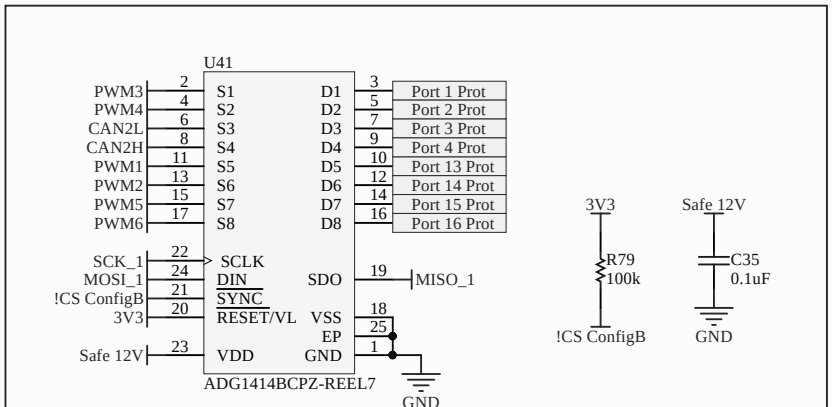




5V/12V Switches to Pot. Terminals

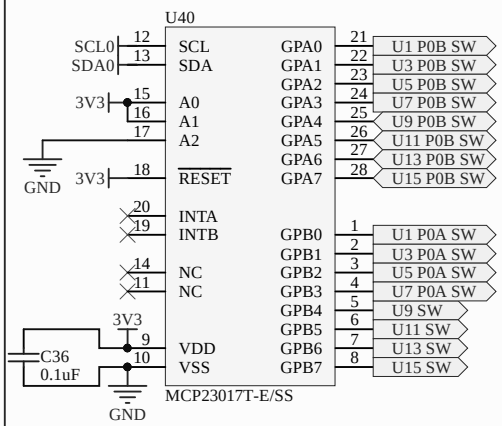


Connecting Switch



Connecting Switch

Configuration Switches



Title:	***Smart Sensor Simulator 3***		*Dr. Jeremy Daily* *Mechanical Engineering* *The University of Tulsa* *800 S. Tucker Dr* *Tulsa, OK 74104*
Subtitle:	Configuration Switches	Revision: 1	
Date: 5/11/2018	Time: 7:14:37 AM Size: Letter	Sheet 6 of 6	
File: C:\Users\dailyadmin\Dropbox (Synercon)\Electronics\TeensyToEthernet\Configuration Switches and DAC for T to E.SchDoc			

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