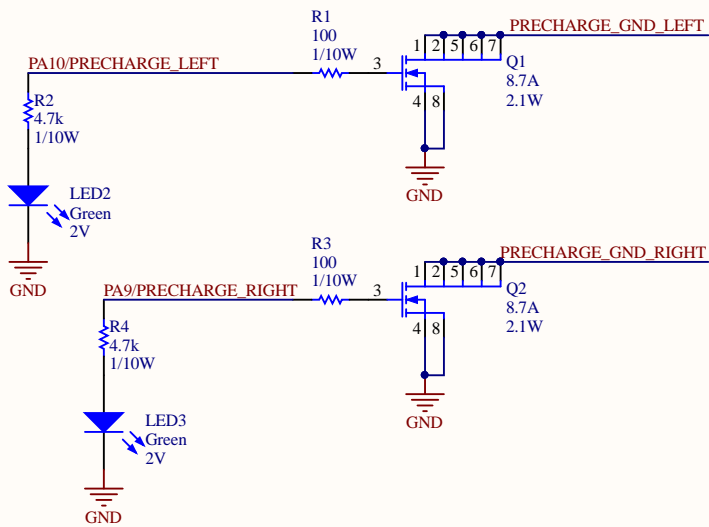
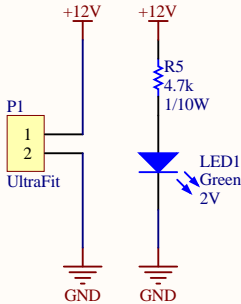
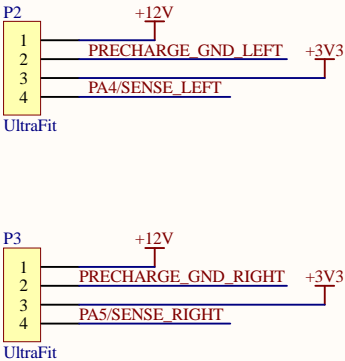


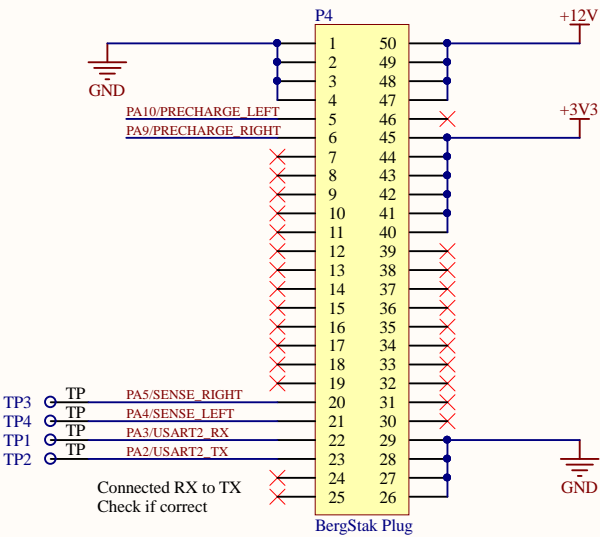
MOSFET Switches



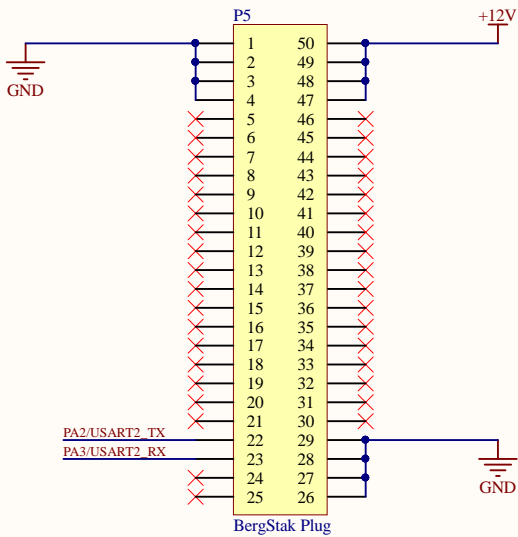
Power




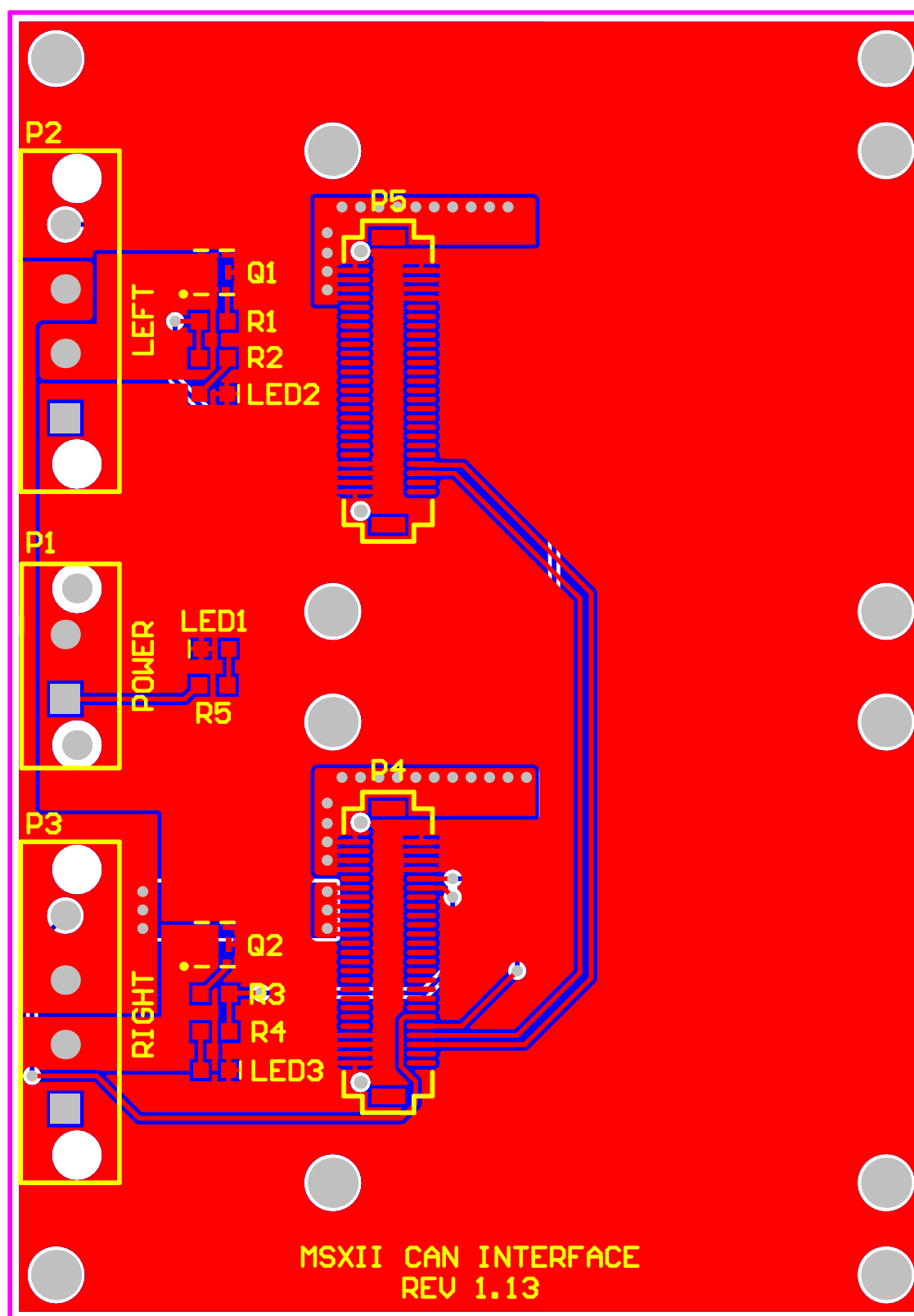
Main Controller



Motor CAN Controller



Project: <i>MotorControllerInterface.PrjPcb</i>		
Title: <b>Carrier Board</b>		
Project Lead: <a href="#">ProjectAuthor</a>		University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9
Size: <a href="#">Letter</a>	Revision: <a href="#">1.13</a>	
Date: <a href="#">10/31/2017</a>	Sheet <a href="#">1</a> of <a href="#">1</a>	
		Website: <a href="#">www.uwmidsun.com</a>



Bill of Materials

Bill of Materials For Project [MotorControllerInterface.PrjPcb] (No PCB Document Selected)

Source Data From: MotorControllerInterface.PrjPcb
Project: MotorControllerInterface.PrjPcb
Variant: None

Creation Date: 10/31/2017 11:42:37 AM
Print Date: 31-Oct-17 11:42:41 AM
Production Quantity: 1
Currency: <none>

Footprint	Comment	LibRef	Designator	Description	Quantity	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal 1	Manufacturer 1	Manufacturer Part Number 1	
LED_0603	LED GREEN CLEAR 2V 0603	LED GREEN CLEAR 2V 0603	LED1, LED2, LED3	Green 572nm LED Indication - Discrete 2V 0603 (1608 Metric)	3	Digi-Key	732-4980-1-ND	0.19	3	\$ 0.57	Würth Electronics Inc.	150060VS75000	
CONN, 2POS ULTRA-FIT	CONN 2POS ULTRA-FIT 0.138"	CONN 2POS ULTRA-FIT 0.138"	P1	2 Positions Header, Shrouded Connector 0.138" (3.50mm) Through Hole Gold	1	Digi-Key	WM11673-ND	1.87	1	\$ 1.87	Molex, LLC	1722861302	
CONN, 4POS ULTRA-FIT	CONN 4POS ULTRA-FIT 0.138"	CONN 4POS ULTRA-FIT 0.138"	P2, P3	4 Positions Header Connector 0.138" (3.50mm) Through Hole Tin	2	Digi-Key	WM11703-ND	1.21	2	\$ 2.42	Molex, LLC	1722871104	
CONN, Bergstak 50 Pos Plug	CONN 50POS Bergstak Plug 0.02"	CONN 50POS Bergstak Plug 0.02"	P4, P5	50 Position Connector Plug, Outer Shroud Contacts Surface Mount Gold	2	Digi-Key	609-5226-1-ND	1.92	2	\$ 3.84	Amphenol FCI	10132797-055100LF	
MOSFET N-CH 30V 12A 2mmx2mm PQFN	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	Q1, Q2	100 Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film	2	Digi-Key	IRLHS6342TRPBFCT-ND	0.81	2	\$ 1.62	Infineon Technologies	IRLHS6342TRPBF	
RES, 0603	RES 100 OHM 1% 1/10W 0603	RES 100 OHM 1% 1/10W 0603	R1, R3		2	Digi-Key	311-100HRCT-ND	0.14	2	\$ 0.28	Yageo	RC0603FR-07100RL	
RES, 0603	RES 4.7K OHM 1% 1/10W 0603	RES 4.7K OHM 1% 1/10W 0603	R2, R4, R5		3	Digi-Key	311-4.70KHRCT-ND	0.14	3	\$ 0.42	Yageo	RC0603FR-074K7L	
Test Point	USART2_RX	Test Point	TP1		1								
Test Point	USART2_TX	Test Point	TP2		1								
Test Point	SENSE_RIGHT	Test Point	TP3	1									
Test Point	SENSE_LEFT	Test Point	TP4	1									
					19						\$ 11.02		
