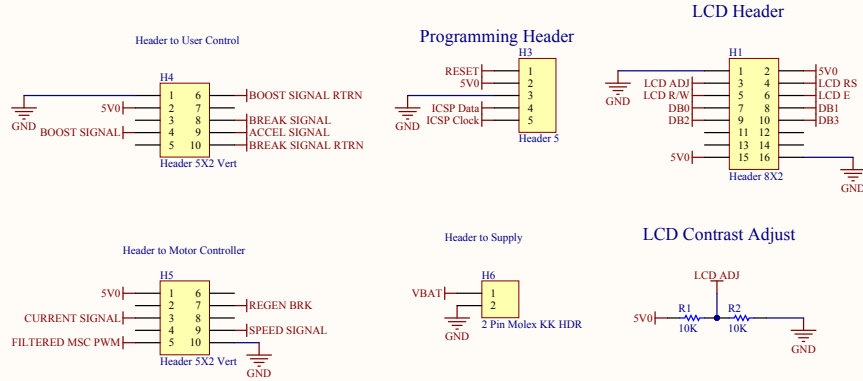
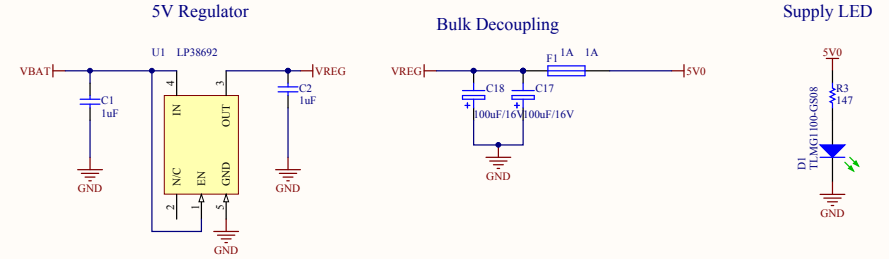


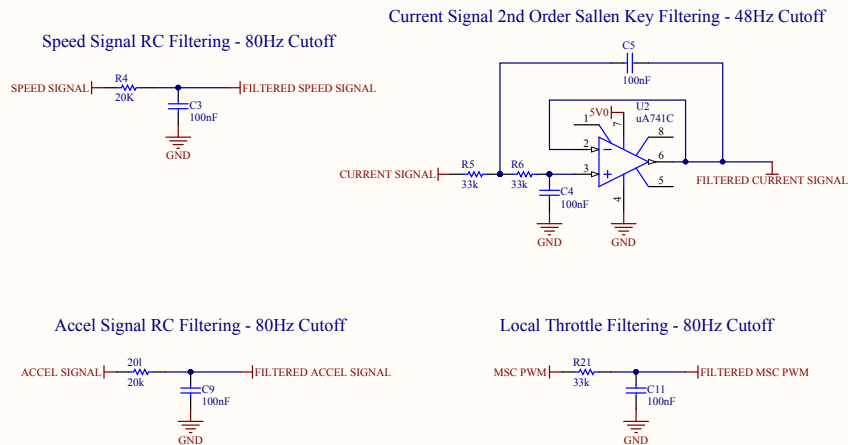
Board I/O



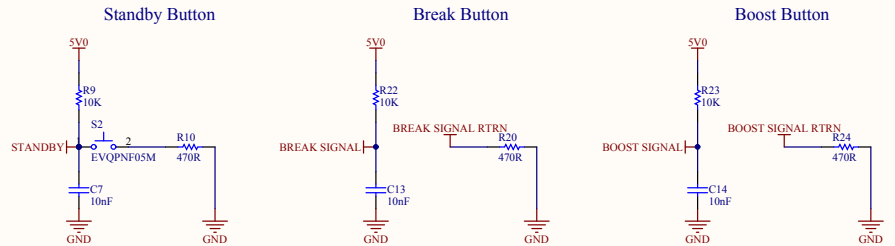
Direct Drive Electric Scooter High Level Controller



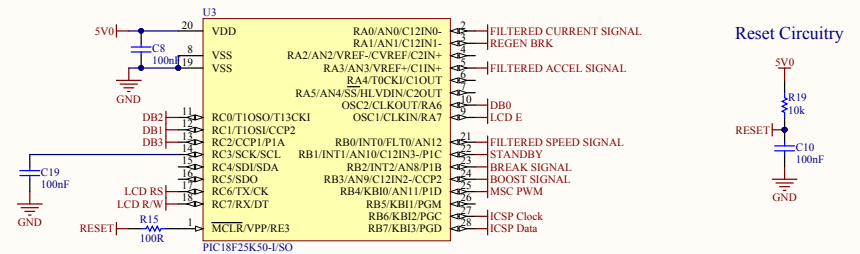
Signal Conditioning



Board Buttons



MCU Interfacing



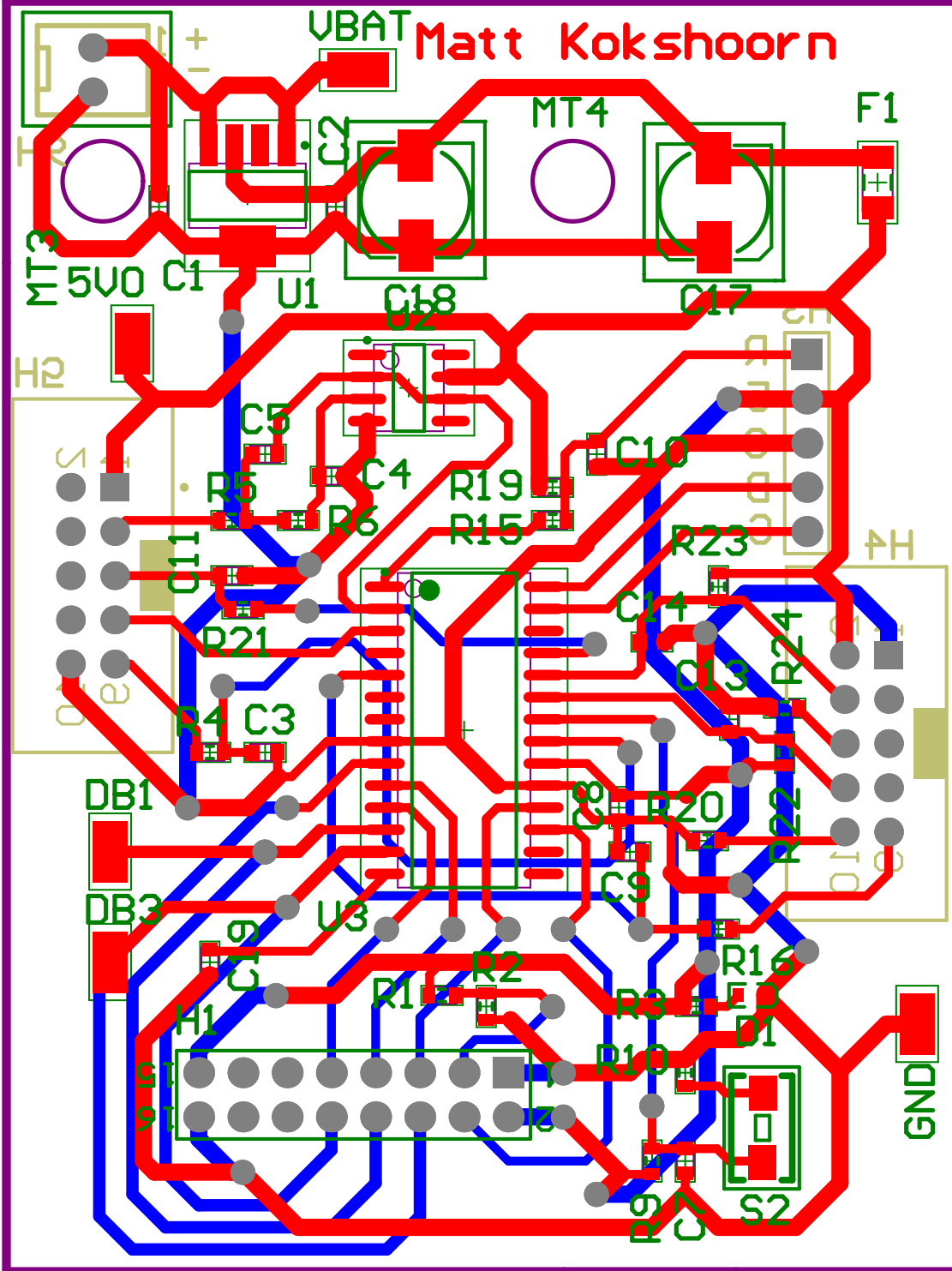
Title: Direct Drive Electric Scooter - High Level Controller

Size: A3 Number: One Revision: One

Date: 9/16/2013 Sheet: 1 of 2

File: \\.\Scooter - Primary Board - Schematic.SCHOWN By:

Matt Kokshoorn



Bill of Materials

Bill of Materials For Project [Scooter - Primary Board - Project .PrjPCB] (No PCB Docu

Source Data From: Scooter - Primary Board - Project .PrjPCB
 Project: Scooter - Primary Board - Project .PrjPCB
 Variant: None

Creation Date: 9/16/2013 4:42:29 AM
 Print Date: 41533 41533.19621

Footprint	Comment	LibRef	Designator	Description	Quantity
RESC1608L	20k	RS_10K	20I, R4	RES 10.0K OHM 1/10W 5% 0603 SMD	2
CAPC1608L	1uF	CC_1uF_0603	C1, C2	CAP CER 1uF Y5V -20% +80% 16V 0603	2
CAPC1608L	100nF	CC_100nF_0603 , CC_100nF_0603 , CC_100nF_0603 , CC_100nF_0603 , CC_100nF_0603 , CC_100nF_0603 , CC_220nF_0603 , CC_100nF_0603	C3, C4, C5, C8, C9, C10, C11, C19	CAP CER 100nF X7R +-10% 50V 0603, CAP CER 100nF X7R +-10% 50V 0603, CAP CER 100nF X7R +-10% 50V 0603, CAP CER 100nF X7R +-10% 50V 0603, CAP CER 100nF X7R +-10% 50V 0603, CAP CER 100nF X7R +-10% 50V 0603, CAP CER 220nF Y5V -20% +80% 16V 0603, CAP CER 100nF	8
CAPC1608L	10nF	CC_10nF_0603	C7, C13, C14	CAP CER 10nF X7R +-10% 50V 0603	3
NICH-1	100uF/16V	CA_100uF_16V_SMD	C17, C18	Nichcon WXseries SMT Aluminium Electrolytic Cap	2
LED0.8X1.6	#NAME?	DL_TLMG1100	D1	LED Green 0603	1
RESC3216N	1A	FS_Fuse_1.0A_SMD_1206	F1	Fuse 1.0A Very Fast Acting 1206	1
HDR2X8	Header 8X2	Header 8X2	H1	Header, 8-Pin, Dual row	1
HDR1X5	Header 5	Header 5	H3	Header, 5-Pin	1
IDC2.54-V10D	Header 5X2 Vert	JA_HDR_IDC_5X2_VERT	H4, H5	IDC Header, 2.54mm, 10-Pin, Vert	2
MOLEX_KK_2_HDR	2 Pin Molex KK HDR	JA_MOLEX_KK_2POS	H6	CONN HEADER 2POS 2.54mm VERT Thru Hole	1
RESC1608L	10K	RS_10K, RS_10K, RS_10K, RS_470R, RS_10K, RS_10K	R1, R2, R9, R19, R22, R23	RES 10.0K OHM 1/10W 5% 0603 SMD, RES 10.0K OHM 1/10W 5% 0603 SMD, RES 10.0K OHM 1/10W 5% 0603 SMD, RES 470 OHM 1/10W 5% 0603 SMD, RES 10.0K OHM 1/10W 5% 0603 SMD, RES 10.0K OHM 1/10W 5% 0603 SMD	6
RESC1608L	147	RS_10K	R3	RES 10.0K OHM 1/10W 5% 0603 SMD	1
RESC1608L	33k	RS_10K	R5, R6, R21	RES 10.0K OHM 1/10W 5% 0603 SMD	3
RESC1608L	470R	RS_470R	R10, R20, R24	RES 470 OHM 1/10W 5% 0603 SMD	3
RESC1608L	100R	RS_470R	R15	RES 470 OHM 1/10W 5% 0603 SMD	1
EVQPNF05M	EVQPNF05M	WS_EVQPNF05M	S2	Panasonic 6 x 3.5mm SMD Light Touch Switch Type	1
SOT223-5N	LP38692	MCP1826-ADJE/AT	U1	1000 mA, Low Voltage, Low Quiescent Current LDO Regulator, 5-Pin TO-220, Extended Temperature	1
SO8_N	uA741C	LM101A/JG	U2	High Performance Operational Amplifier	1
SOIC-SO28_N	PIC18F25K50-I/SO	PIC18F25K20T-I/SO	U3	Flash Microcontroller with 10-Bit A/D and nanoWatt Technology, 32K Flash, 28-Pin SOIC, Industrial Temperature Range, Tape and Reel	1
					42

Approved	Notes