Source: Date: Tool: Generator: Component Count: /home/nebk/Documents/school/Senior/Design/motor-controller-2018/motor-controller-hw/motor-controller-hw.sch Sat 22 Dec 2018 05:1527 PM CST Eeschema S.O. // /home/nebk/programs/EEschema-plugins/hom_csv_grouped_by_value.py 141

Component Count:	1	41				
Collated Components:	Qty	Reference(s)	Value	Footprint	Datasheet	Digi-key#
1	7	C101, C104, C105, C214, C306, C411, C416	4u7	Capacitors_SMD:C_0805_HandSoldering	Zeitasireet ~	732-7628-1-ND
2	29	C102, C201, C204, C205, C206, C207, C208, C209, C210, C211, C301, C302, C303, C304, C305, C311, C401, C402, C403, C404, C405, C406, C407, C408, C409, C412, C413, C414, C415	100n	Capacitors_SMD:C_0805_HandSoldering	-	1276-2444-1-ND
3	1	C103	33u	Capacitor_THT:CP_Radial_D8.0mm_P3.50mm	https://industrial.panasonic.com/ww/products/capacitors/aluminum-capacitors/aluminum-cap-lead/fc/EEUFC1J470	P10340-ND
4	4	C202, C212, C213, C307	1u	Capacitors_SMD:C_0805_HandSoldering	w w	732-7672-1-ND
5	1	C203	150n	Capacitors_SMD:C_0805_HandSoldering	w.	732-7674-1-ND
6	6	C215, C216, C217, C218, C219, C220	100p	Capacitors_SMD:C_0805_HandSoldering	-	1276-1014-1-ND
7	5	C308, C417, C418, C419, C420	10n	Capacitors_SMD:C_0805_HandSoldering	•	732-12169-1-ND
8	2	C309, C310	27pf	Capacitors_SMD:C_0805_HandSoldering	•	1276-2622-1-ND
9	1	C410	470n	Capacitors_SMD:C_0805_HandSoldering		732-7670-1-ND
10	1	D101	15V Zener	Diode_SMD:D_SOD-123F	https://www.diodes.com/assets/Datasheets/BZT52HC2V4WF%20-%20BZT52HC47WF.pdf	BZT52HC15WF-7DICT-ND
11	1	D102	D_USB	Diode_SMD:D_SOD-123F	https://www.fairchildsemi.com/datasheets/MB/MBR1020VL.pdf	MBR1020VLCT-ND
12 13	1	D103 D104	Vin	LEDs:LED_0603_HandSoldering	https://katalog.we-online.de/pbs/datasheet/150060RS55040.pdf	732-12015-1-ND
13	1		5V	LEDs:LED_0603_HandSoldering	https://katalog.we-online.de/pbs/datasheet/150060RS55040.pdf	732-12015-1-ND
15	1	D105 D301	3.3V CAN Status	LEDs:LED_0603_HandSoldering LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	https://katalog.we-online.de/pbs/datasheet/150060RS55040.pdf https://katalog.we-online.de/pbs/datasheet/150060BS55040.pdf	732-12015-1-ND 732-12013-1-ND
16	1	D302	Heartbeat	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	https://katalog.we-online.de/pbs/datashee/1500608555040.pdf	732-12015-1-ND
17	1	D303	User LED	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	https://katalog.we-online.com/led/datasheet/150060VS55040.pdf	732-12017-1-ND
18	3	F101, F102, F103	50mA PTC	Fuse:Fuse_0603_1608Metric_Pad1.05x0.95mm_HandSolder	https://belfuse.com/resources/CircuitProtection/datasheets/0ZCM%20Nov2016.pdf	507-1816-1-ND
19	1	J101	CAN	supermileage_footprints:Molex-duraClick-4conn	https://www.molex.com/pdm_docs/sd/5023520200_sd.pdf	WM7171CT-ND
20	1	J102	Throttle	supermileage_footprints:Molex-duraClick-4conn	https://www.molex.com/pdm_docs/sd/5023520200_sd.pdf	WM7171CT-ND
21	1	J103	Motor T	supermileage_footprints:Molex-duraClick-2conn	https://www.molex.com/pdm_docs/sd/5023520200_sd.pdf	WM7169CT-ND
22	1	J104	Tran T	supermileage_footprints:Molex-duraClick-2conn	https://www.molex.com/pdm_docs/sd/5023520200_sd.pdf	WM7169CT-ND
23	1	J105	USB_B_Micro	supermileage_footprints:USB_Micro-B	https://www.amphenol-icc.com/media/wysiwyg/files/drawing/10118194.pdf	609-4618-1-ND
24	1	J106	Extra IO	supermileage_footprints:Molex-UltraFit-14p-vert	https://www.molex.com/pdm_docs/sd/1722981112_sd.pdf	WM11743-ND
25	1	J107	Hall Sensors	supermileage_footprints:MICRO_JST_6	http://www.jst-mfg.com/product/pdf/eng/ePH.pdf	455-1708-ND
26	1	J108	CAN_DBG	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical	https://media.digikey.com/PDF/Data%20Sheets/Sullins%20PDFs/xRxCzzzSxxN-RC_ST_11635-B.pdf	S1212EC-02-ND
27	1	J109	ABN Encoder			S1212EC-05-ND
28	1	J110	SPI_DBG	Connector_PinHeader_2.54mm:PinHeader_1x04_P2.54mm_Vertica		S1212EC-04-ND
29	1	J111	Trinamic-Bridge		https://drawings-pdf.s3.amazonaws.com/10492.pdf	S7125-ND
30	1	J301	SWD	Connector_PinHeader_2.54mm:PinHeader_1x06_P2.54mm_Vertica		S1212EC-06-ND
31	1	J302	User USART	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertica		S1212EC-03-ND
32 33	1	J401 J402	Trinamic_TRM		https://www.hirose.com/product/download/?distributor=digikey&type=2d⟨=en#=DF20F-10DP-1V(56)	H10726CT-ND S1212EC-03-ND
33	1	JP201	CAN Term	tTConnector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertica Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertica		S1212EC-03-ND S1212EC-02-ND
35	1	Q101	Q_PMOS_GDS		http://aosmd.com/res/data_sheets/AOD407.pdf	785-1102-1-ND
36	12	R101, R102, R103, R220, R301, R401, R402, R403, R404, R405, R408,	10K	Resistors_SMD:R_0805_HandSoldering	https://www.te.com/commerce/DocumentDelivery/DDEController/Action=srchrtrv&DocNm=1773204-3&DocType=DS&DocLang=English	A129761CT-ND
37	1	R409 R104	1K	Resistors_SMD:R_0805_HandSoldering	https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtrv&DocNm=1773204-3&DocType=DS&DocLang=English	A129749CT-ND
38	4	R105, R302, R306, R307	330R	Resistors_SMD:R_0805_HandSoldering	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_9.pdf	311-330CRCT-ND
39	5	R201, R202, R203, R204, R205	2K	Resistors_SMD:R_0805_HandSoldering	https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtrv&DocNm=1773204&DocType=DS&DocLang=English	A126358CT-ND
40	1	R206	3K9	Resistors_SMD:R_0805_HandSoldering	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_9.pdf	311-3.90CRCT-ND
41	10	R207, R208, R209, R213, R214, R215, R304, R305, R406, R407	100R	Resistors_SMD:R_0805_HandSoldering	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_9.pdf	311-100CRCT-ND
42	7	R210, R211, R212, R217, R218, R219, R303	4K7	Resistors_SMD:R_0805_HandSoldering	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_9.pdf	311-4.70KCRCT-ND
43	1	R216	120R	Resistors_SMD:R_0805_HandSoldering	https://www.te.com/commerce/DocumentDelivery/DDEController? Action=srchrtrv&DocNm=1773204-3&DocType=DS&DocLang=Englished (Controller) and the controller (Co	A129738CT-ND
44	1	R410	110K	Resistors_SMD:R_0805_HandSoldering	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_9.pdf	311-110KCRCT-ND
45	1	SW301	Reset	supermileage_footprints:SW_SPST_FSMSM	https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtrv&DocNm=1437566-3&DocType=Customer+Drawing&DocLang=Englished (Controller) and the controller (Controller) and the c	450-1758-1-ND
46	1	SW302	Boot	supermileage_footprints:SW_SPST_FSMSM	https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtrv&DocNm=1437566-3&DocType=Customer+Drawing&DocLang=English=12000000000000000000000000000000000000	450-1758-1-ND
47	1	SW303	User_SW	supermileage_footprints:SW_SPST_FSMSM	https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtrv&DocNm=1437566-3&DocType=Customer+Drawing&DocLang=English=1437566-3&DocType=English=14375660-3&DocType=English=1437560-3&DocType=English=1437560-3&DocType=English=1437560-3&DocType=English=1437560-3&DocType=English=1437560-3&DocType=Eng	450-1758-1-ND
48	1	U101	AP7361C-33	Package_TO_SOT_SMD:SOT-223	https://www.diodes.com/assets/Datasheets/AP7361C.pdf	AP7361C-33E-13DICT-ND
49	1	U102	D36V6F5	supermileage_footprints:D36V6Fx	https://www.pololu.com/category/247/d36v6x-step-down-voltage-regulators	
50	3	U201, U202, U203	MCP6004	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	http://ww1.microchip.com/downloads/en/DeviceDoc/21733j.pdf	MCP6004-I/SL-ND
51	2	U204, U205	74HC7014	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	https://assets.nexperia.com/documents/data-sheet/74HC7014.pdf	1727-6342-1-ND
52	1	U206	mcp2562	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	https://www.nxp.com/docs/en/data-sheet/TJF1051.pdf	568-11881-1-ND
53 54	1	U301 U401	STM32F303RET TMC4671		http://www.st.com/st-web-ui/static/active/en/resource/technical/document/datasheet/DM00118585.pdf	497-15163-ND 1460-1302-ND
54 55	1	U401 X401	IQXO-50	supermileage_footprints:TMC4671 supermileage_footprints:Clock-FOX924	https://www.trinamic.com/fileadmin/assets/Products/ICs_Documents/TMC4671_datasheet_v1.03.pdf https://www.foxonline.com/pdfs/fox924.pdf	1460-1302-ND 631-1074-1-ND
56	1	Y301	IQXU-50 8Mhz	Supermileage_rootprints:Clock-F-0X924 Crystal:Crystal_SMD_HC49-SD_HandSoldering	https://www.roxonline.com/paisnox924.par https://abracon.com/Resonators/abls.pdf	535-10212-1-ND
30	1	1301	OIVIIIZ	Crystal.Crystal_SWD_TC49-SD_narius0idefing	пцрэланасоп.сопичесопасовань.рог	222-10515-1-IAD