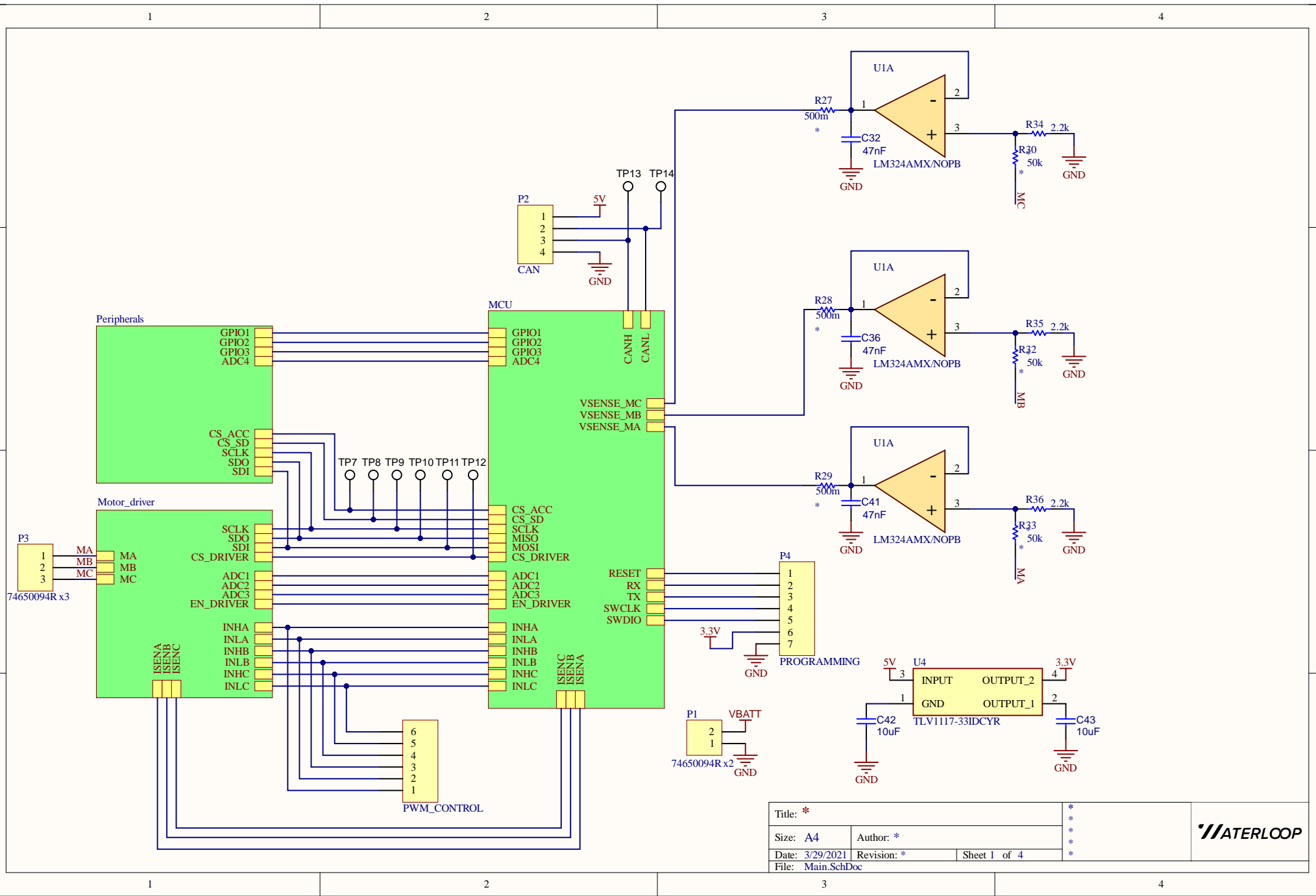
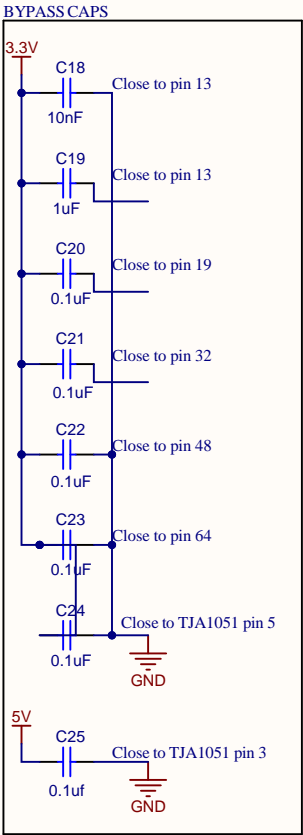


Designator	Value	Comment	Description	Footprint	Quantity
		PWM CONTROL	Header, 6-Pin	HDR1X6	
AC1		US3DHTR	Accelerometer	LS3DHTR	1
C1	0.047µF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C2	1µF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C3, C8, C20, C21, C22, C23, C24, C38, C39	0.1µF		C0805C103K8RAC7R00 1000pF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric) C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	9
C4, C5, C6	1000pF		C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C7	4.7µF		CL21B105KPFNNNE 1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C9, C19	1µF		C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric) CL21B105KPFNNNE 1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C10, C14	100µF	100V	Polarized Capacitor (Surface Mount)	C0805	2
C11, C12	2.2µF	10V	C0805C225K8RACALUT 0.2.2µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C13, C42, C43	10µF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C15, C25, C34, C37	0.1µF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
C16	10µF	100V	Polarized Capacitor (Surface Mount)	C0805	1
C17, C26, C33, C35	0.1µF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
C18	10nF		C0805C103K8RAC7R00 1000pF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	1
C27, C28, C29	2200pF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	3
C30, C31	28pF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	2
C32, C36, C40, C41	47nF	10V	C0805C104K8RAC7U 0.1µF ±10% 10V Ceramic Capacitor XTR 0805 (2012 Metric)	C0805	4
D1		RED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	3.2X1.6X1.1	1
IC1		TMUX1208PWR	Integrated Circuit	SOP65P640KT20-16N	1
P1		7465094R x2	Header, 2-Pin	HDR1X2	1
P2		CAN	Header, 4-Pin	HDR1X4	1
P3		7465094R x3	Header, 3-Pin	HDR1X3	1
P4		PROGGRAMMING	Header, 7-Pin	HDR1X7	1
P5		DM3D-SF	CONN MICRO 5D CARD PUSH-PULL	FP-DM3D-SF-MFG	1
Q1, Q2, Q3, Q4, Q5, Q6		NMOS-2	N-Channel Power MOSFET	CSD185Q2KCS	6
R1, R2, R4, R5, R6, R10, R14, R24, R25, R26, R31		10k	Resistor	0603 - Resistor	12
R3		330	Resistor	0603 - Resistor	1
R7, R8, R15, R17, R19		500u	Resistor	0603 - Resistor	5
R9, R34, R35, R36		2.2k	Resistor	0603 - Resistor	4
R11, R12, R22		100	Resistor	0603 - Resistor	3
R13, R20, R32, R33		50k	Resistor	0603 - Resistor	4
R16	120	5%	ERJ-3GEY103V, 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200 Thick Film	J1-0603	1
R18, R27, R28, R29		500m	Resistor	0603 - Resistor	4
R20, R21, R22		5k	Resistor	0603 - Resistor	3
RT1, RT2, RT3, RT4, RT5, RT6, RT7, RT8		10k	NTC Thermistor for Temperature Sensor, SMD 0603, 10kΩ	ERT-J1VG103JA	8
S1		SW-PB	Switch	PT5636SM43SMTRLFS	1
S2		PT5636_SM433_SMTR JFS	Switch	PT5636SM43SMTRLFS	1
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	White	5002	Test Point, Miniature, White, Th	Keystone5002	14
U		DRV8323SRAT	Multiphase Motor Driver Power MOSFET SPI 40- WOFN - 6x6	QFN50P600K600R80- 41N415K415	1
U1, U5		LM524AMX/NOPB	Gen Purp 4Ch Opamp	LM524AMX/NOPB	4
U2		TJA1051T_3.118	Integrated Circuit	EIA1051T_3.118	1
U3		STM32F405RG16TR		STM32F405RG16TR	1
U4		TLV1117-33BDCYR	Integrated Circuit 1V to 26V Current Sense Amplifier	TLV1117-33BDCYR	1
U6, U7		INA180		INA180	2
Y1		ABM43-16.000MHZ-82- T	16MHz ±20ppm Crystal 18pF 40 Ohms 2-SMD, No Lead	ABM43-16.000MHZ-82- T	1



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Size: A4	Author: *	*	
Date: 3/29/2021	Revision: *	Sheet 1 of 4	*
File: Main.SchDoc			



**WATERLOOP**

