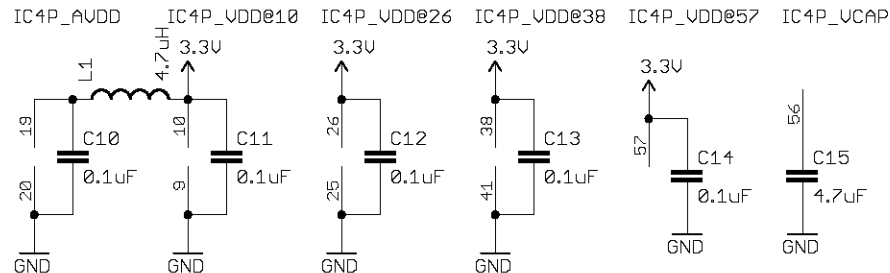
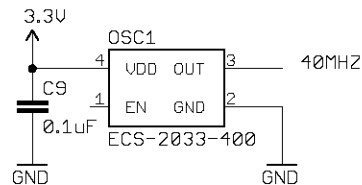
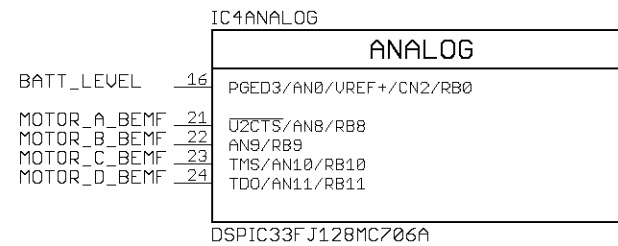
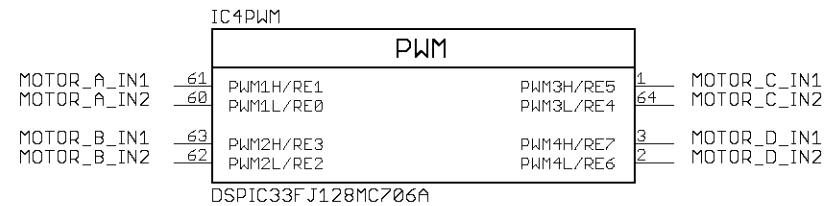
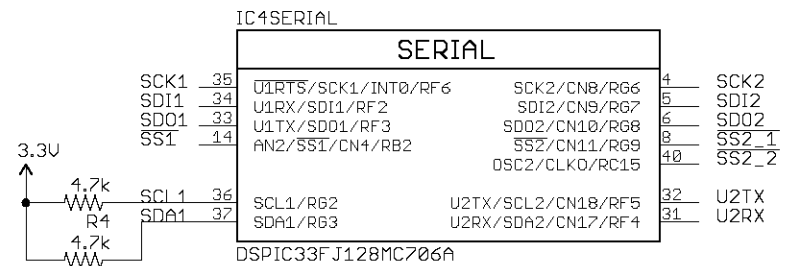
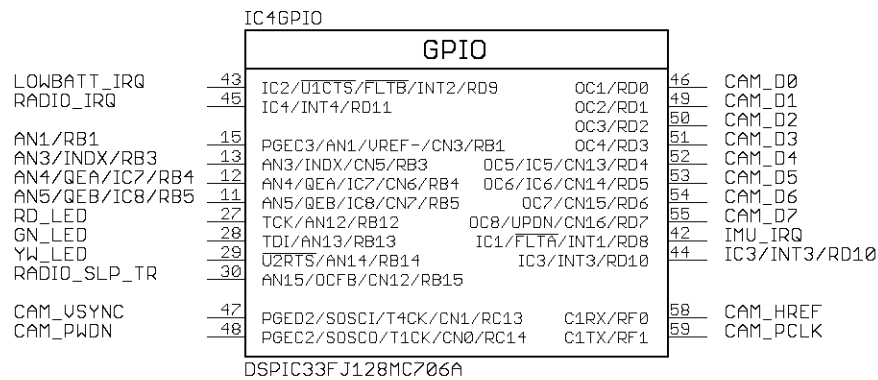
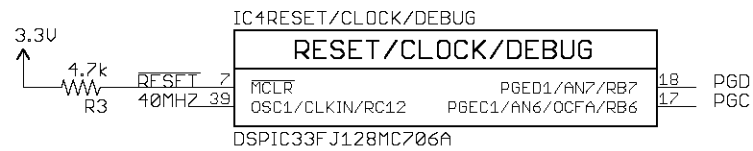


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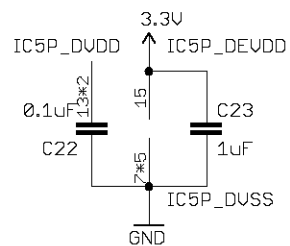
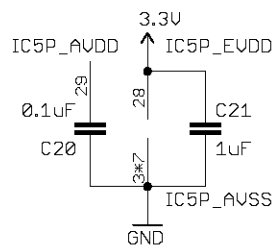
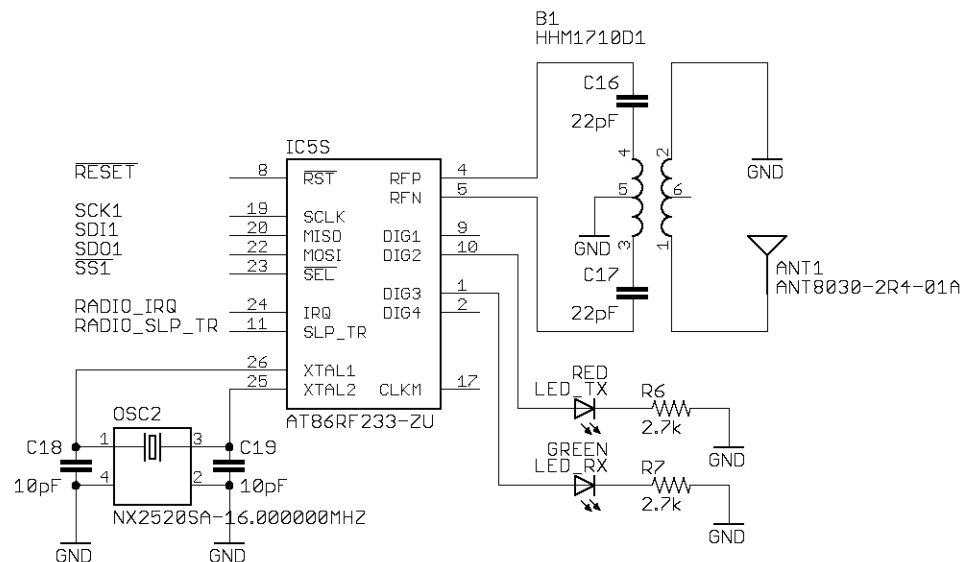
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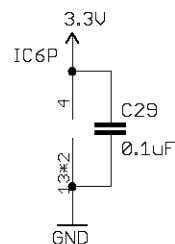
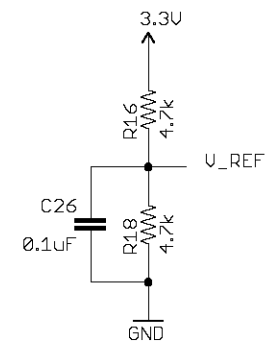
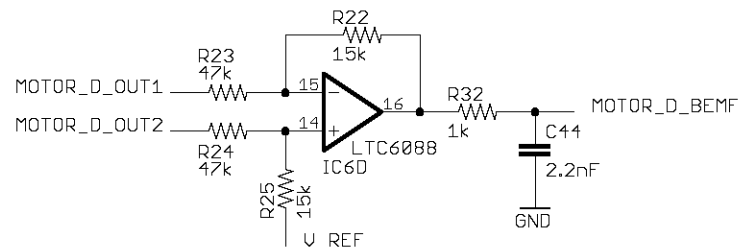
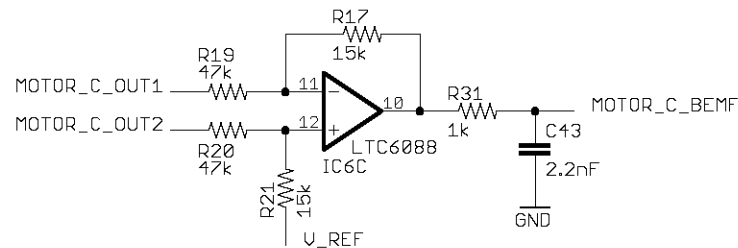
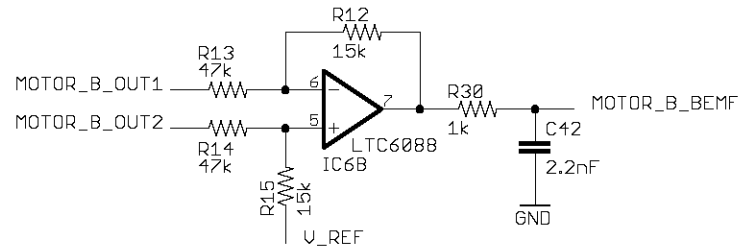
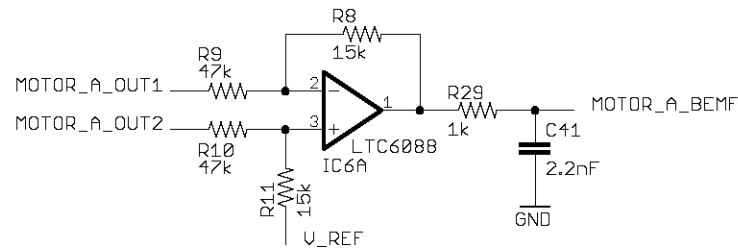
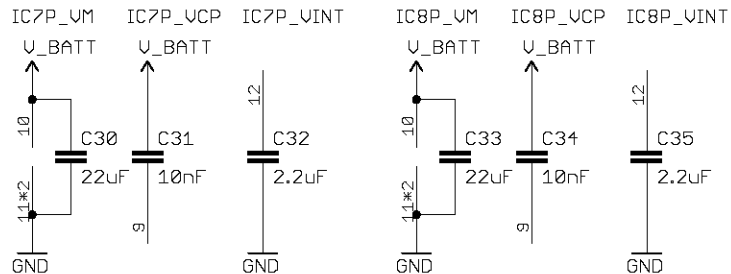
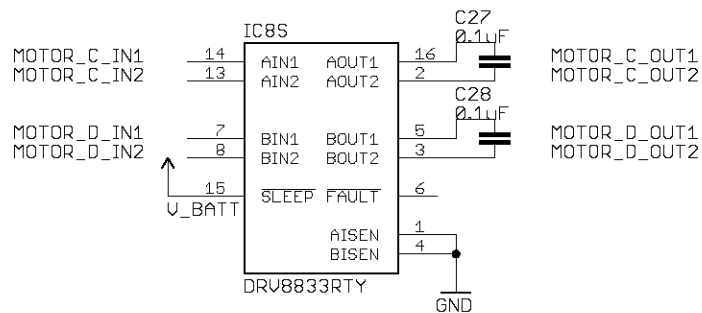
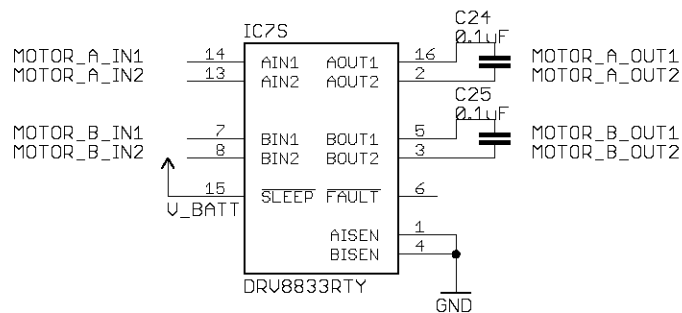
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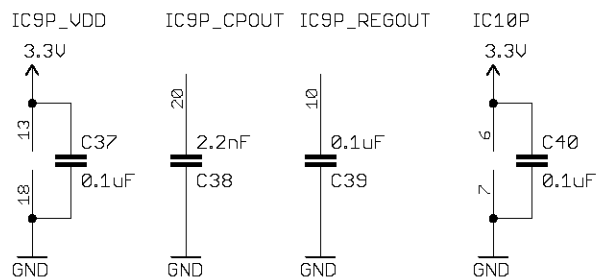
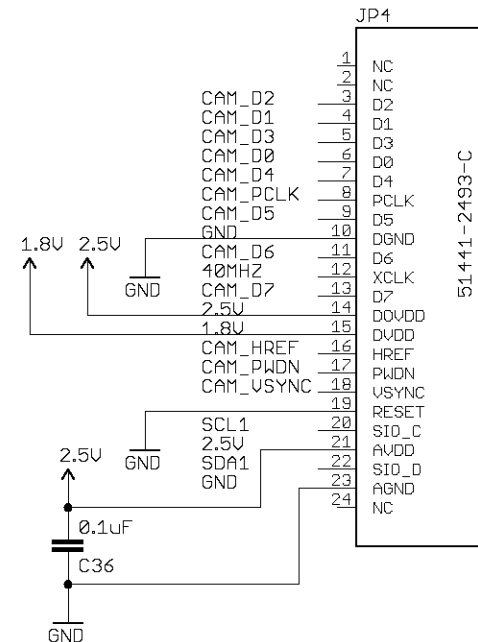
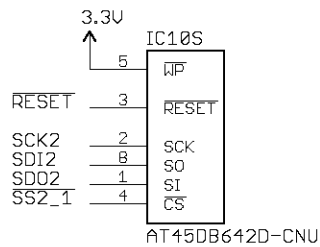
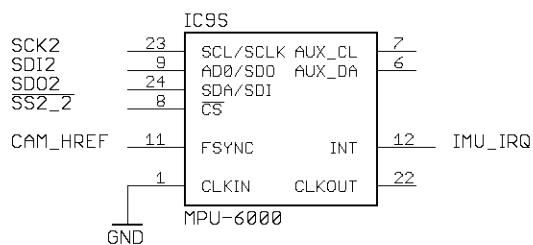
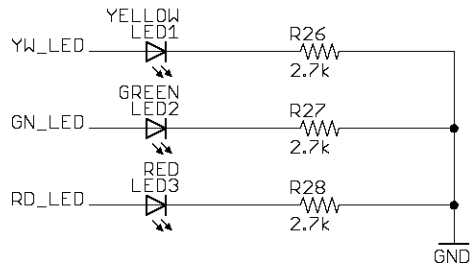
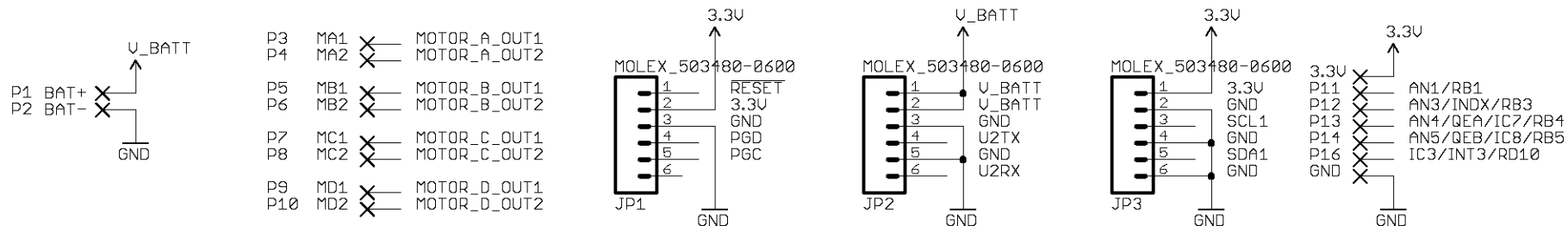
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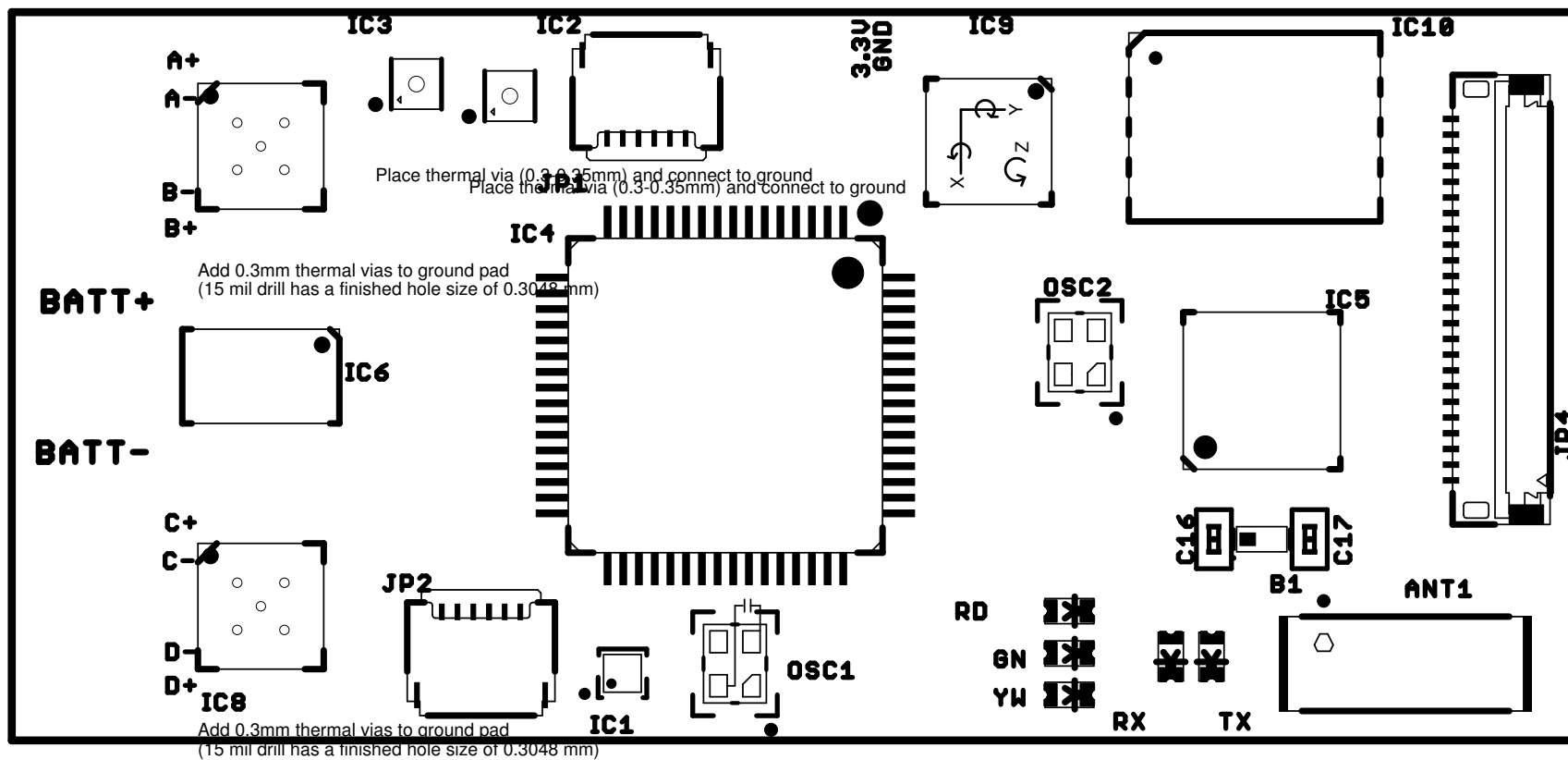
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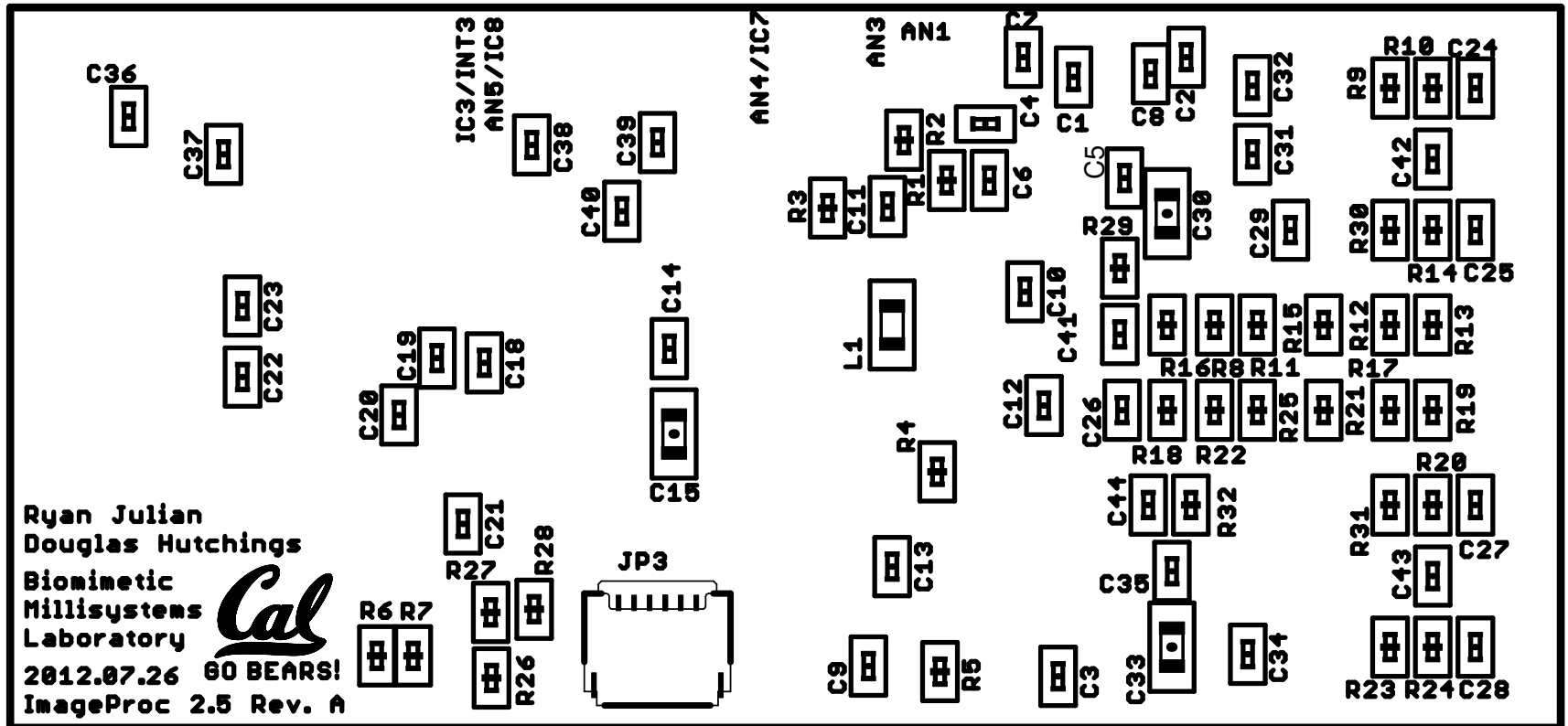
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Ryan Julian
 Douglas Hutchings
 Biomimetic
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 Laboratory
 2012.07.26 60 BEARS!
 ImageProc 2.5 Rev. A



Qty	Value	Parts	Device	Tol	Vol	Dielec	Description
1	ANT8030-2R4-01A	ANT1	ANT8030-2R4-01A				
1	AT45DB642D-CNU	IC10	AT45DB642D-CNU				
1	AT86RF233-ZU	IC5	AT86RF233-ZU				
20	0.1uF	C3, C6, C9, C10, C11, C12, C13, C14, C20, C22, C24, C25, C26, C27, C28, C29, C36, C37, C39, C40	CAP0402-CAP	10%	16V	X7R	Capacitor
2	10nF	C31, C34	CAP0402-CAP		16V	X7R	Capacitor
2	10pF	C18, C19	CAP0402-CAP	10%	50V	C0G	Capacitor
8	1uF	C1, C2, C4, C5, C7, C8, C21, C23	CAP0402-CAP	10%	16V	X5R	Capacitor
5	2.2nF	C38, C41, C42, C43, C44	CAP0402-CAP	10%	50V	X7R	Capacitor
2	2.2uF	C32, C35	CAP0402-CAP	10%	6.3V		Capacitor
2	22pF	C16, C17	CAP0402-CAP	5%	50V	C0G	Capacitor
2	22uF	C30, C33	CAP0603-CAP				Capacitor
1	4.7uF	C15	CAP0603-CAP		16V		Capacitor
2	DRV8833RTY	IC7, IC8	DRV8833RTY				TI DRV8833 1.5A Dual H-Bridge Motor Driver IC
1	DSPIC33FJ128MC706A	IC4	DSPIC33FJ128MC706A				
1	ECS-2033-400	OSC1	ECS-2033-400				ECS 3.3V 40MHz oscillator
1	HHM1710D1	B1	HHM1710D1				
1	4.7uH	L1	INDUCTOR0603				Inductors
2	GREEN	LED2, LED_RX	LED0603				LEDs
2	RED	LED3, LED_TX	LED0603				LEDs
1	YELLOW	LED1	LED0603				LEDs
1	LTC6088	IC6	LTC6088				14MHz, Rail-to-Rail Output, 12nV/Hz, 1.1mA Op Amp
1	MIC5335-JGYMT	IC3	MIC5335-JGYMT				Micrel MIC5335 150mA dual (2.5V/1.8V) voltage regulator
1	MIC5335-SPYMT	IC2	MIC5335-SPYMT				Micrel MIC5335 150mA dual (3.3V/3.0V) voltage regulator.
3	MOLEX_503480-0600	JP1, JP2, JP3	MOLEX_503480-0600				
1	MPU-6000	IC9	MPU-6000				MPU-6000 3-axis gyro + 3-axis accelerometer, SPI/I2C interface with auxiliary I2C interface for magnetometer
1	NX2520SA-16.000000MHZ	OSC2	NX2520SA-16.000000MHZ				644-1059-6-ND
1	51441-2493-C	JP4	OV7660FSL_CON				

8	15k	R8, R11, R12, R15, R17, R21, R22, R25	RESISTOR0402-RES		Resistor
5	1k	R1, R29, R30, R31, R32	RESISTOR0402-RES	1%	Resistor
6	2.7k	R2, R6, R7, R26, R27, R28	RESISTOR0402-RES	1%	Resistor
5	4.7k	R3, R4, R5, R16, R18	RESISTOR0402-RES	1%	Resistor
8	47k	R9, R10, R13, R14, R19, R20, R23, R24	RESISTOR0402-RES	1%	Resistor
1	XC61GC3002HR-G	IC1	XC61GC3002HR-G		Torex XC61GC3002HR-G 3.0V voltage detector.