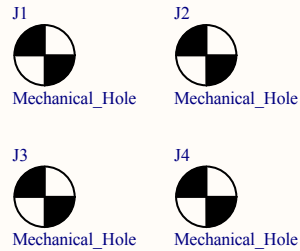
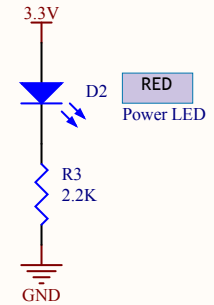
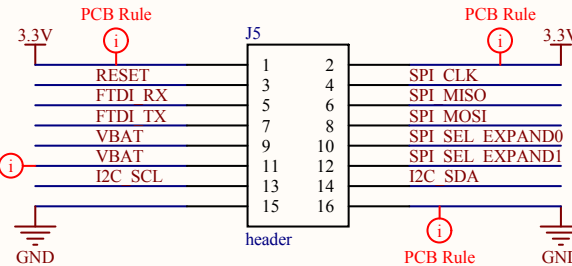
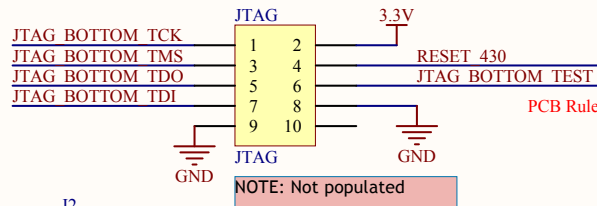


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File:	C:\svn\...\currentSense.SchDoc		Drawn By:



A

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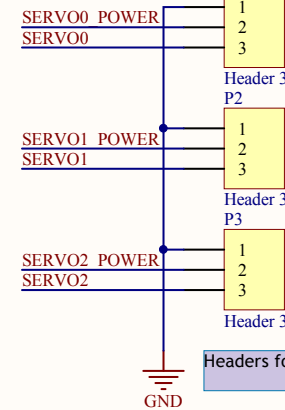
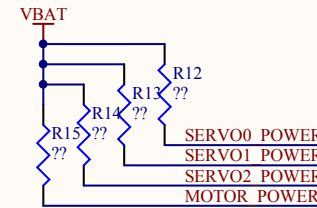
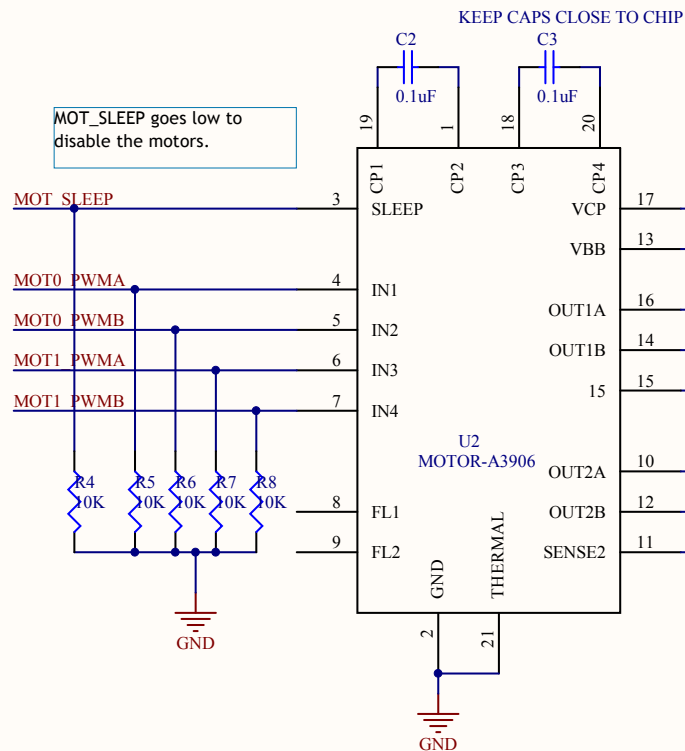


B

B

These servos will likely need additional circuitry to reduce noise and/or provide more current when all three are going.

MOT\_SLEEP goes low to disable the motors.



C

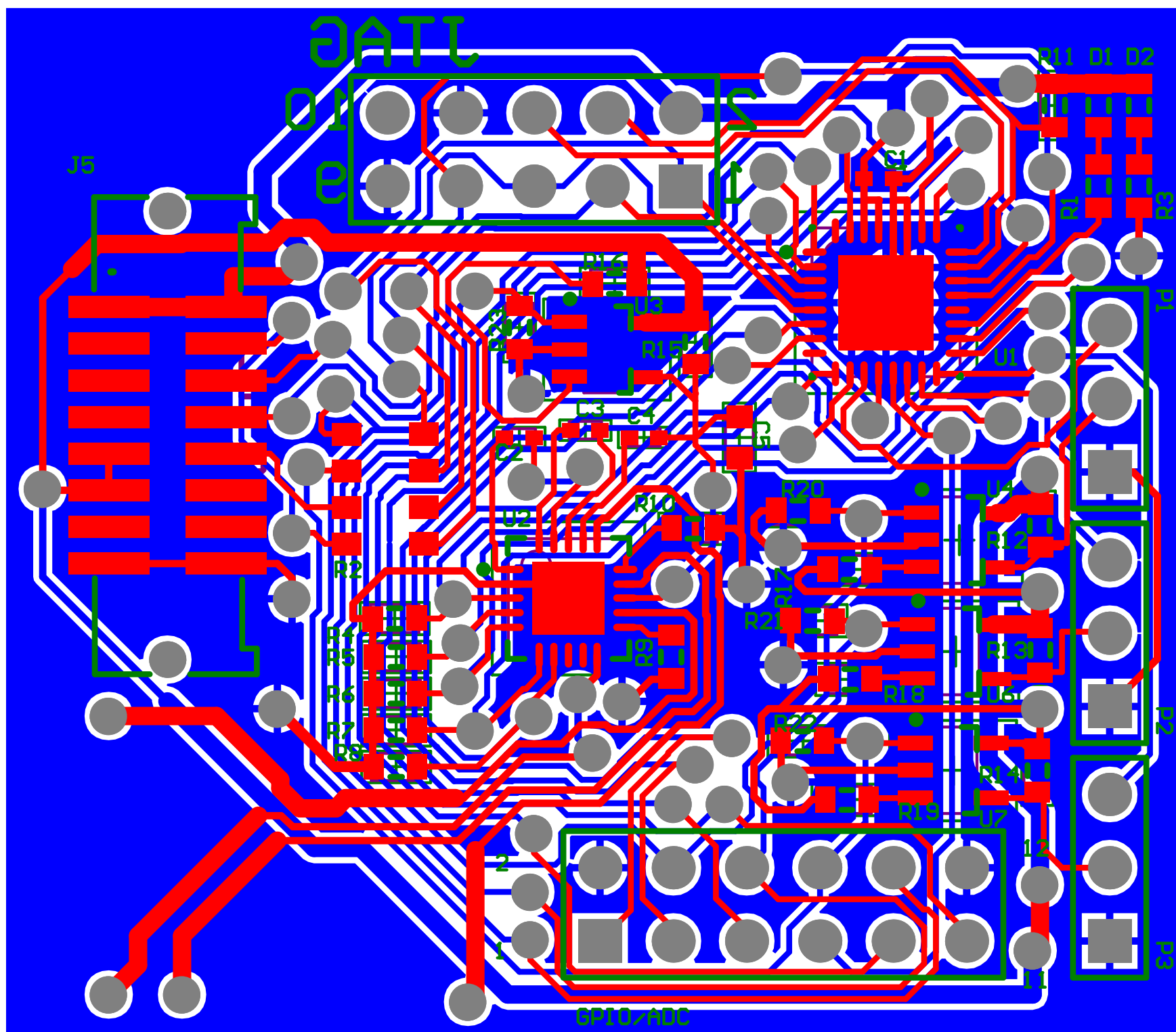
C

Send out to pads, spaced for motor leads. Not a motor part because may want to attach leads to test different motors.

D

D

Title		
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Comment	Description	Designator	Footprint	LibRef	Quantity
Cap Semi	Capacitor (Semiconductor SIM Model)	C1, C2, C3, C4	CAPC1005L	Cap Semi	4
Cap Semi	Capacitor (Semiconductor SIM Model)	C5	CAPC1608L	Cap Semi	1
Heartbeat		D1	SurfaceMount(603)	LED	1
Power LED		D2	SurfaceMount(603)	LED	1
Header 6X2	Header, 6-Pin, Dual row	GPIO/ ADC	HDR2X6	Header 6X2	1
Mechanical_Hole	A mechanical hole for mounting the board	J1, J2, J3, J4	#4_Screw_Hole	Mechanical_Hole	4
header		J5	HEADERSM 8X2	HEADER 8X2	1
JTAG	Header, 5-Pin, Dual row	JTAG	HDR2X5	Header 5X2	1
Header 3	Header, 3-Pin	P1, P2, P3	HDR1X3	Header 3	3
Res3	Resistor	R1, R3, R4, R5, R6, R7, R8, R9, R10, R11	J1-0603	Res3	10
4-res array		R2	4-RES ARRAY 2012	4 Res Array	1
RLOAD	Resistor	R12, R13, R14, R15	J1-0603	Res3	4
R_IN	Resistor	R16, R17, R18, R19	J1-0603	Res3	4
R_OUT	Resistor	R20, R21, R22, R23	J1-0603	Res3	4
MSP430G2553		U1	QFN-32	MSP430G2553	1
MOTOR-A3906		U2	QFN-20	MOTOR-A3906	1
LT6106	Current Sense Amplifier	U3, U4, U6, U7	TSOT-23-5_LT6106	LT6106	4