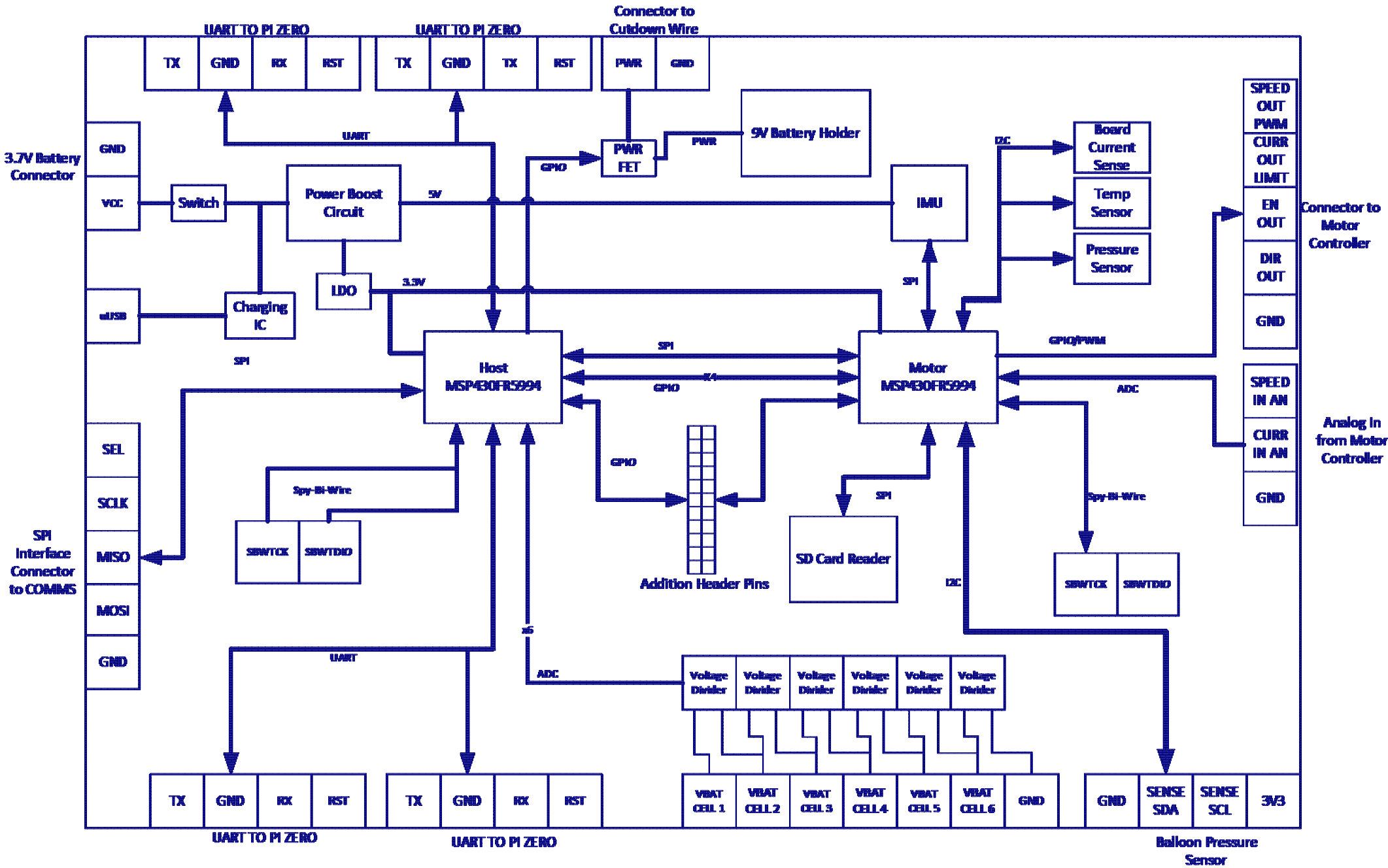


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A	<div>DATA ACQUISITION AND CONTROL HOST BOARD</div>							A																				
B								B																				
C	<div>TABLE OF CONTENTS</div> <table><tr><th>SHEET</th><th>SHEET_NAME</th></tr><tr><td>1</td><td>TABLE OF CONTENTS</td></tr><tr><td>2</td><td>MAIN BOARD BLOCK DIAGRAM</td></tr><tr><td>3</td><td>HOST MSP430 SCHEMATIC</td></tr><tr><td>4</td><td>MOTOR CONTROL MSP430 SCHEMATIC</td></tr><tr><td>5</td><td>HOST MSP430 CONNECTORS</td></tr><tr><td>6</td><td>MOTOR MSP430 CONNECTORS</td></tr><tr><td>7</td><td>SENSORS AND SD CARD SCHEMATICS</td></tr><tr><td>8</td><td>POWER MANAGEMENT SCHEMATIC</td></tr><tr><td>9</td><td>REACTION WHEEL BATTERY VOLTAGE SENSE SCHEMATIC</td></tr></table>							SHEET	SHEET_NAME	1	TABLE OF CONTENTS	2	MAIN BOARD BLOCK DIAGRAM	3	HOST MSP430 SCHEMATIC	4	MOTOR CONTROL MSP430 SCHEMATIC	5	HOST MSP430 CONNECTORS	6	MOTOR MSP430 CONNECTORS	7	SENSORS AND SD CARD SCHEMATICS	8	POWER MANAGEMENT SCHEMATIC	9	REACTION WHEEL BATTERY VOLTAGE SENSE SCHEMATIC	C
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MAIN BOARD BLOCK DIAGRAM

DAQCS - MSP430 Host Controller Board



MAIN BOARD BLOCK DIAGRAM

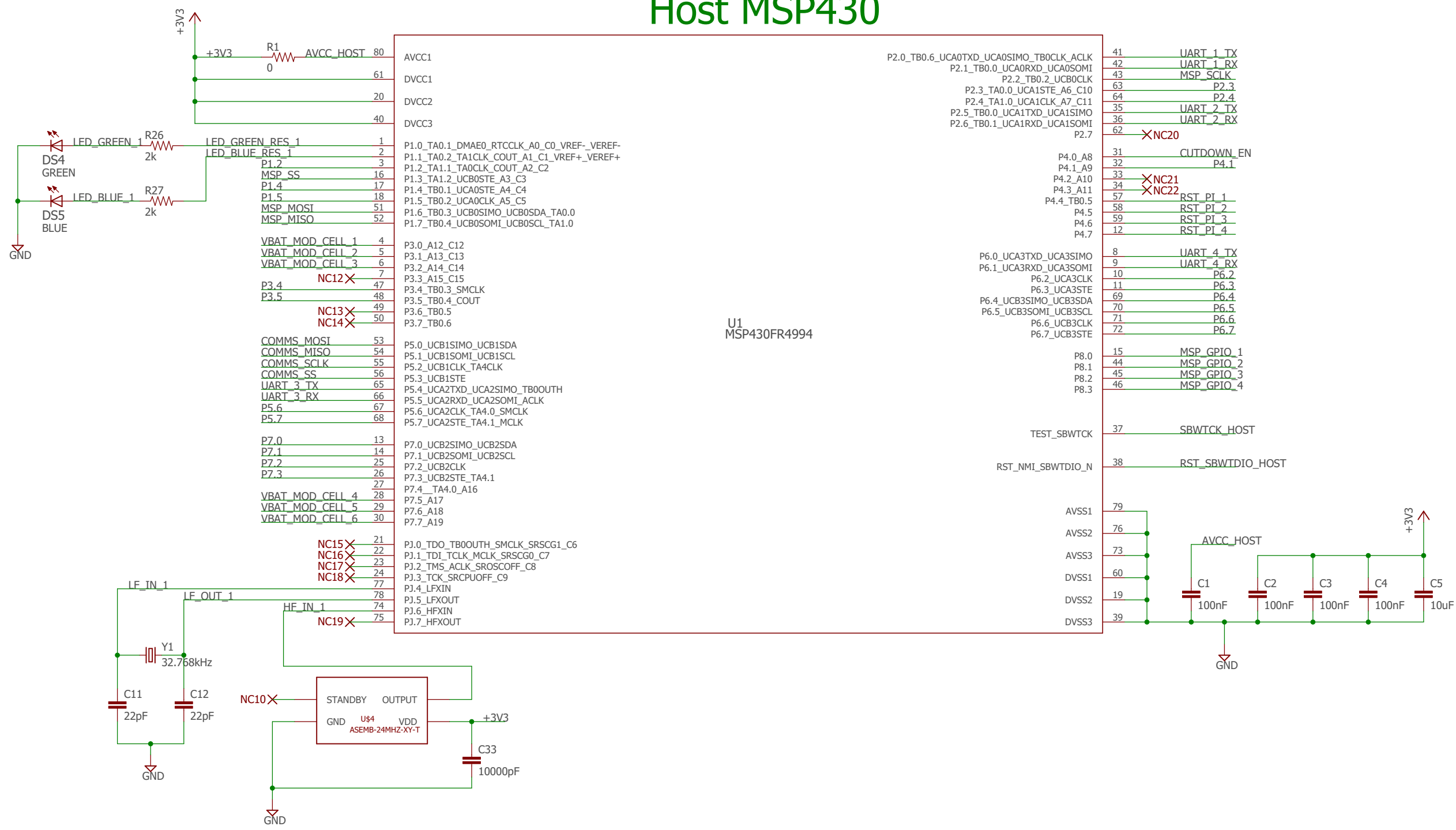
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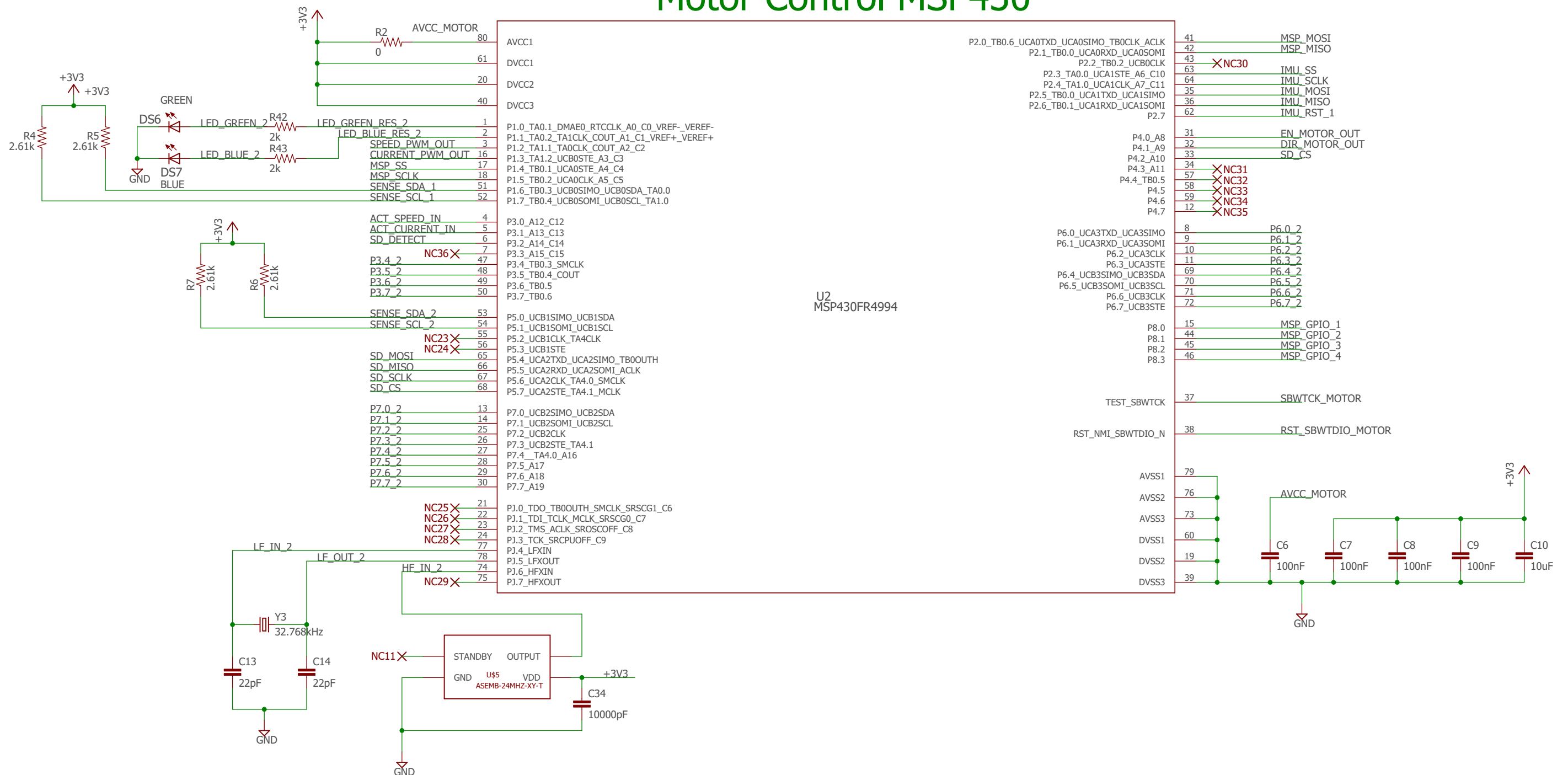
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Host MSP430

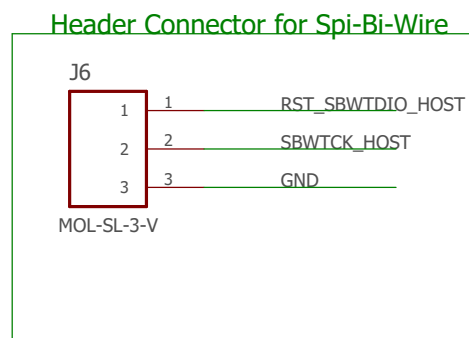
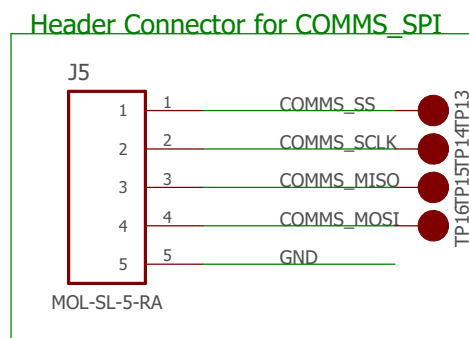
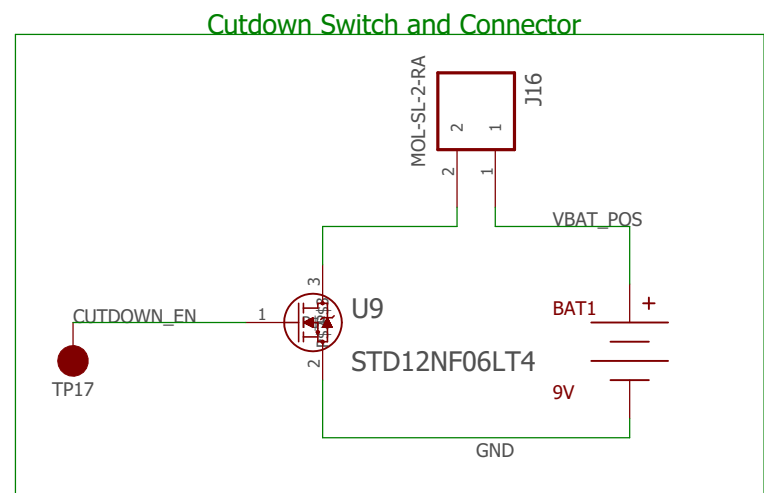
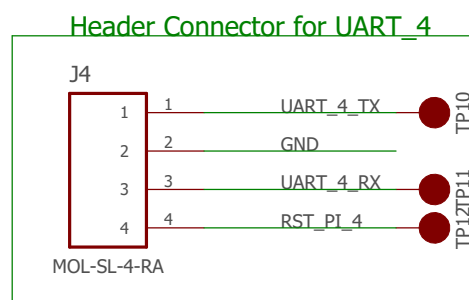
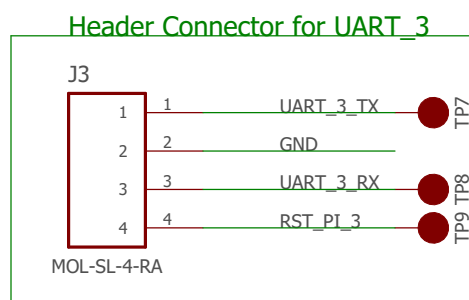
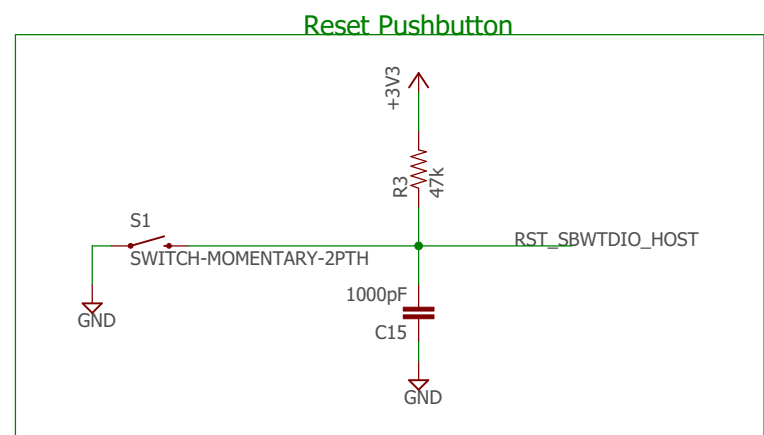
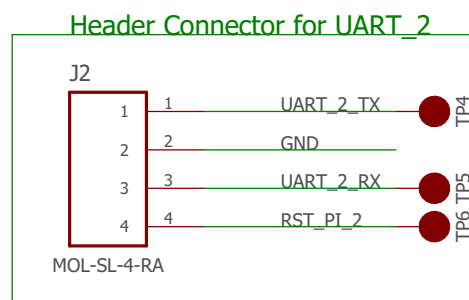
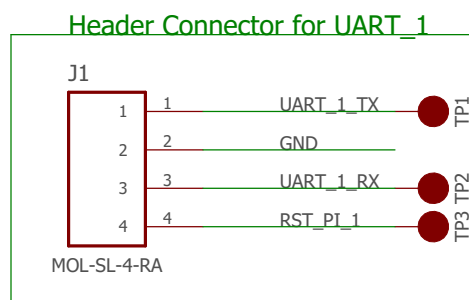
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MSP430FR4994



Motor Control MSP430

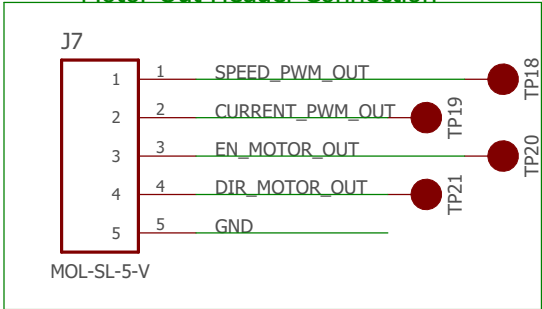


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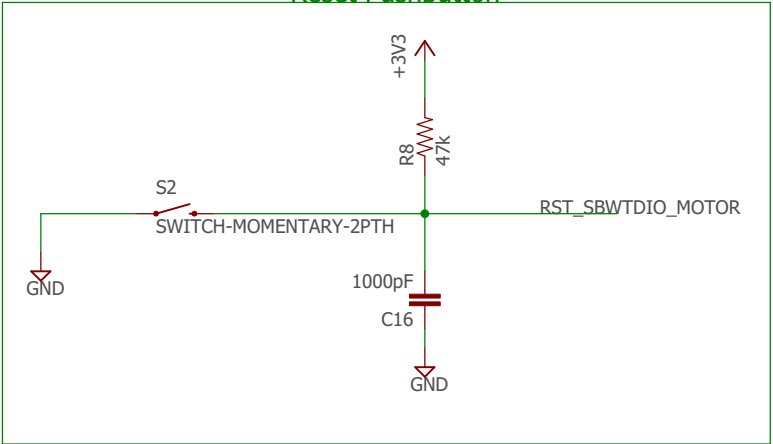


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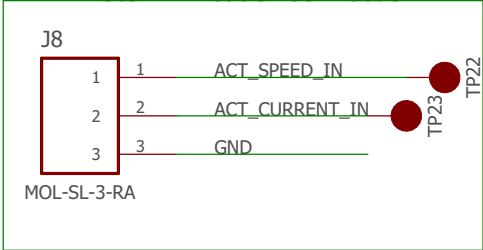
Motor Out Header Connection



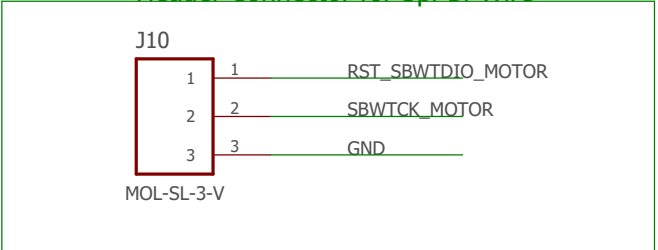
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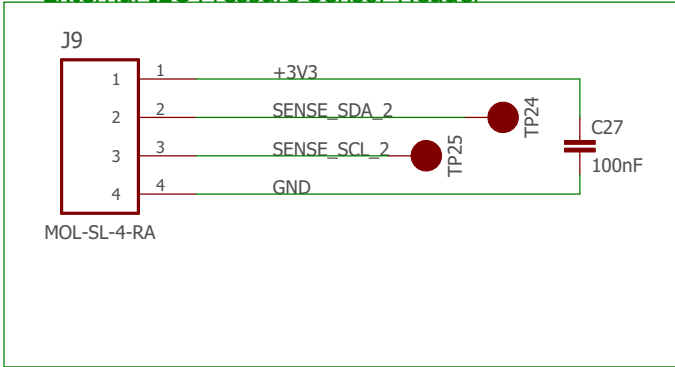
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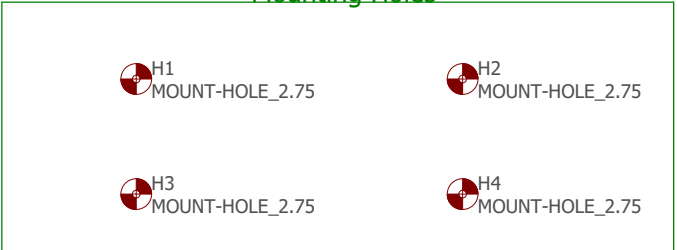
Header Connector for Spi-Bi-Wire



External I2C Pressure Sensor Header

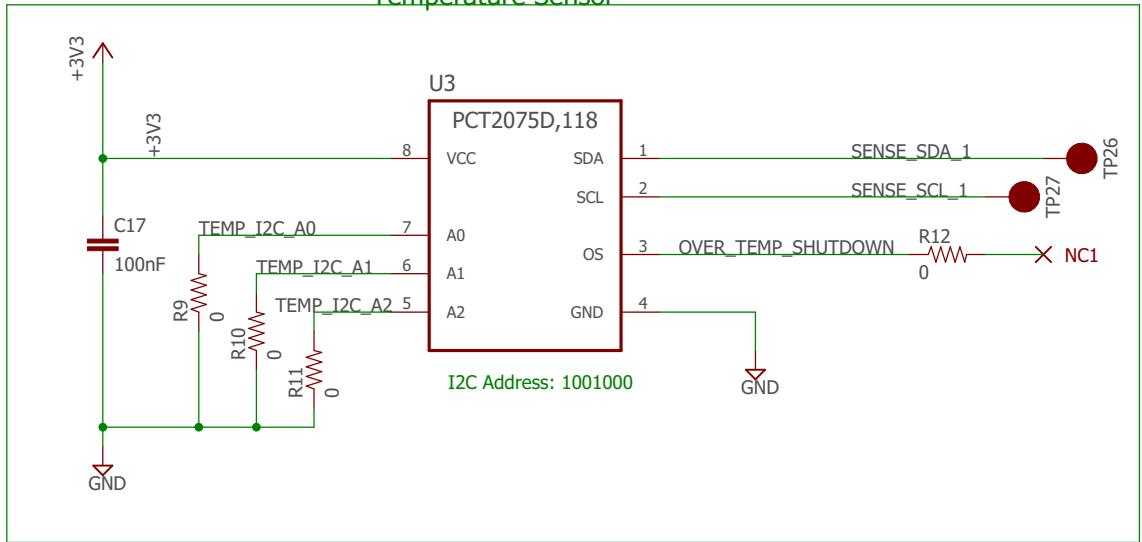


Mounting Holes

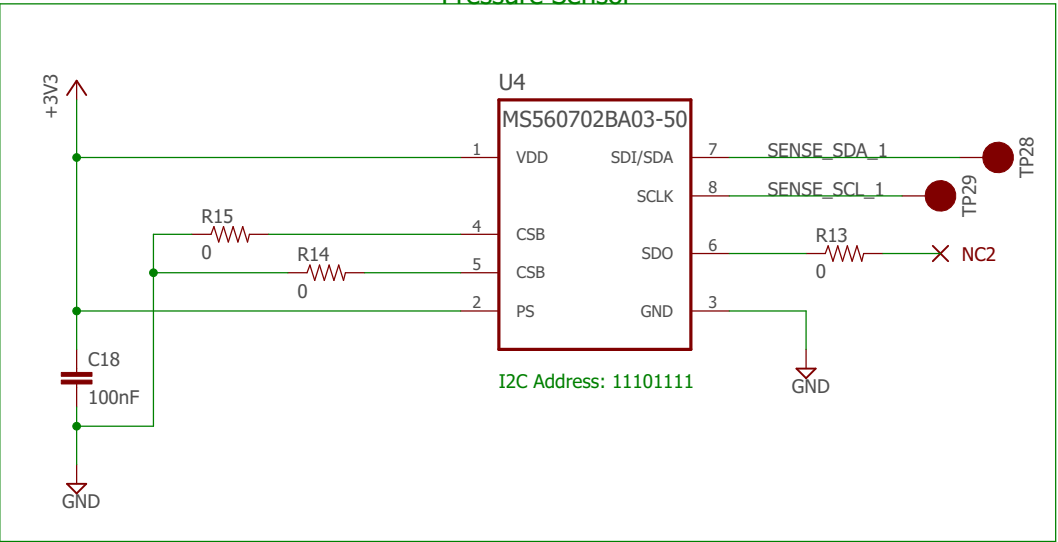


Sensors and SD Card

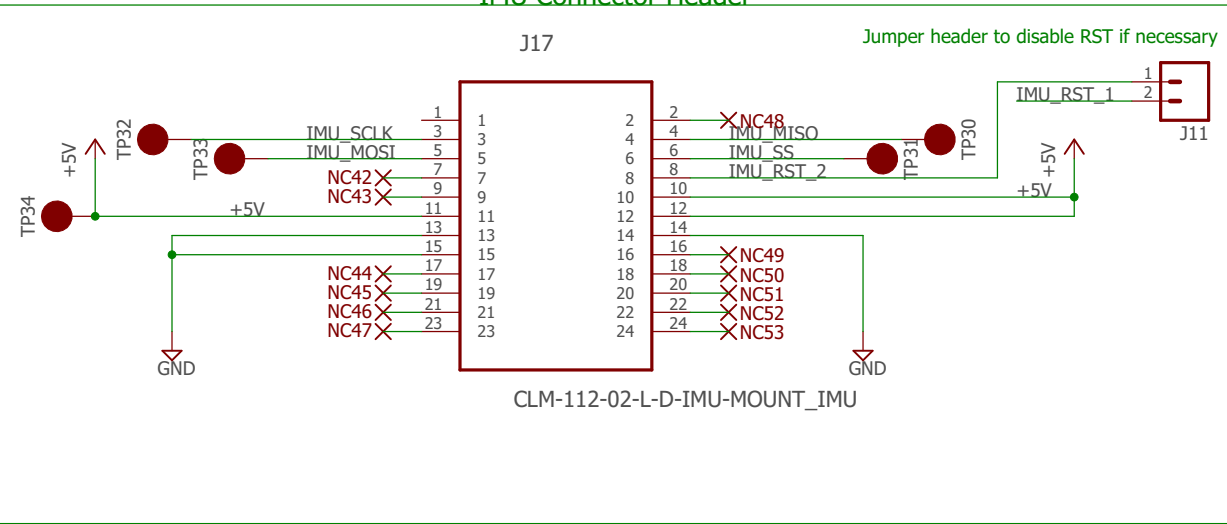
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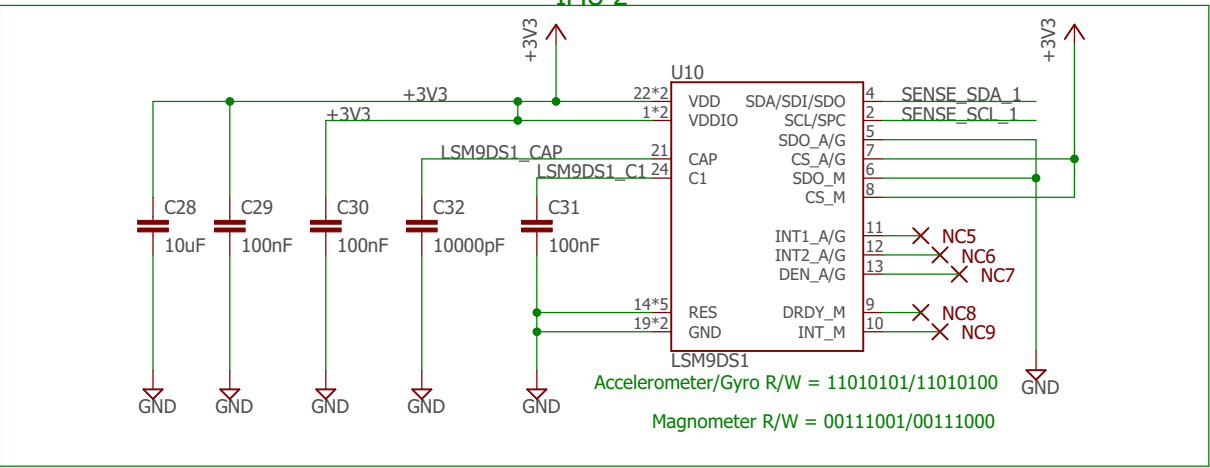
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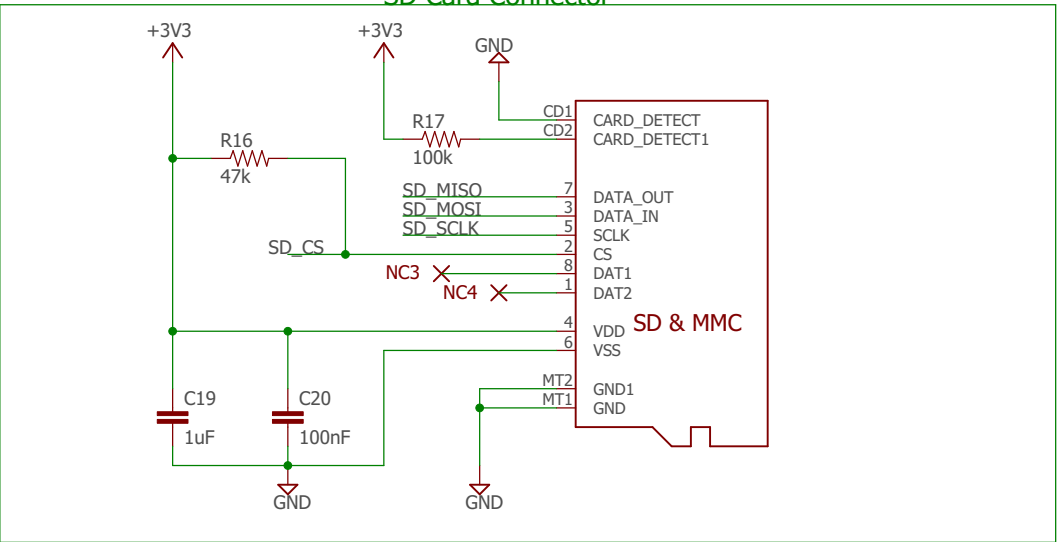
IMU Connector Header



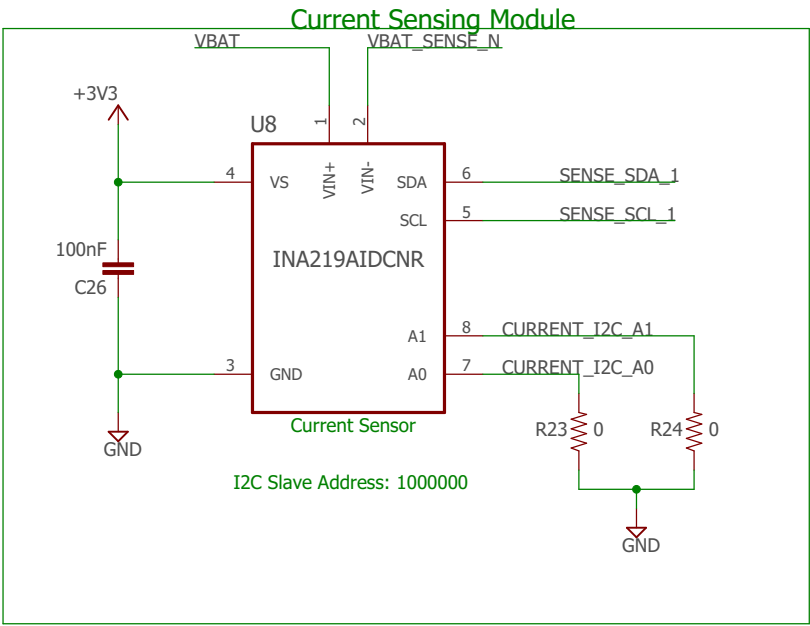
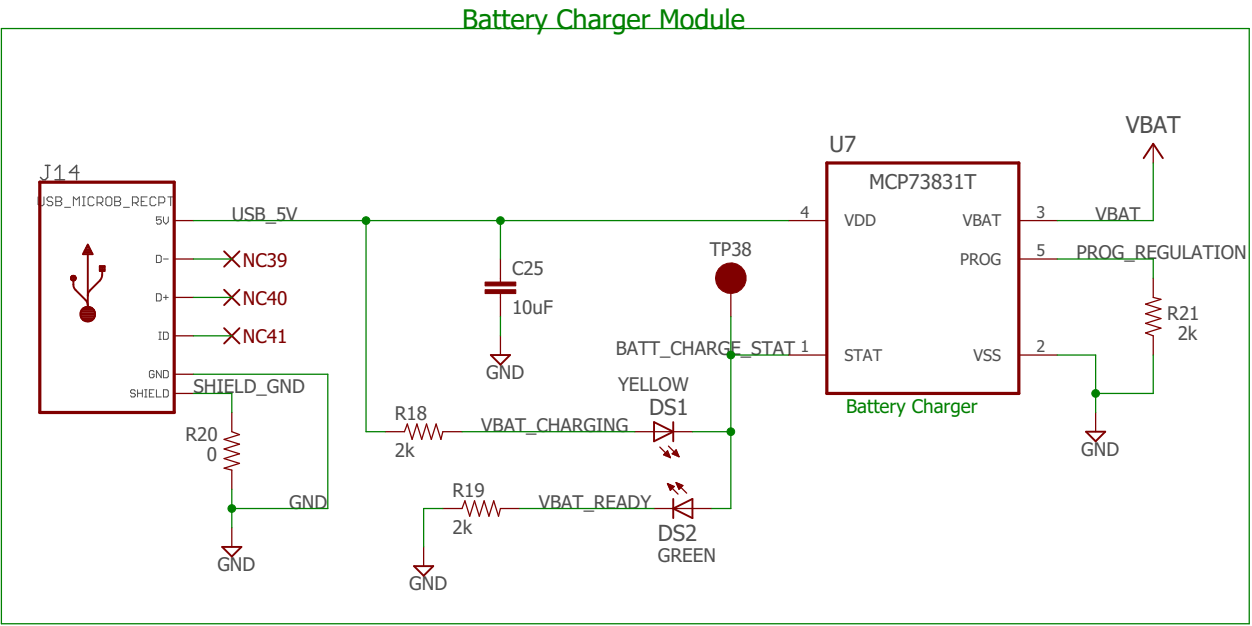
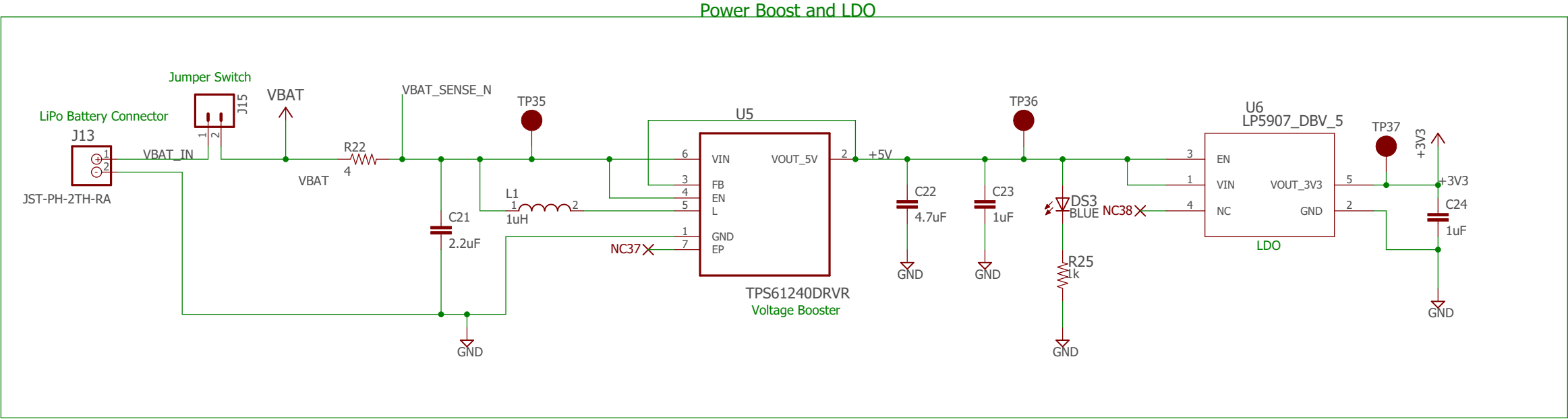
IMU 2



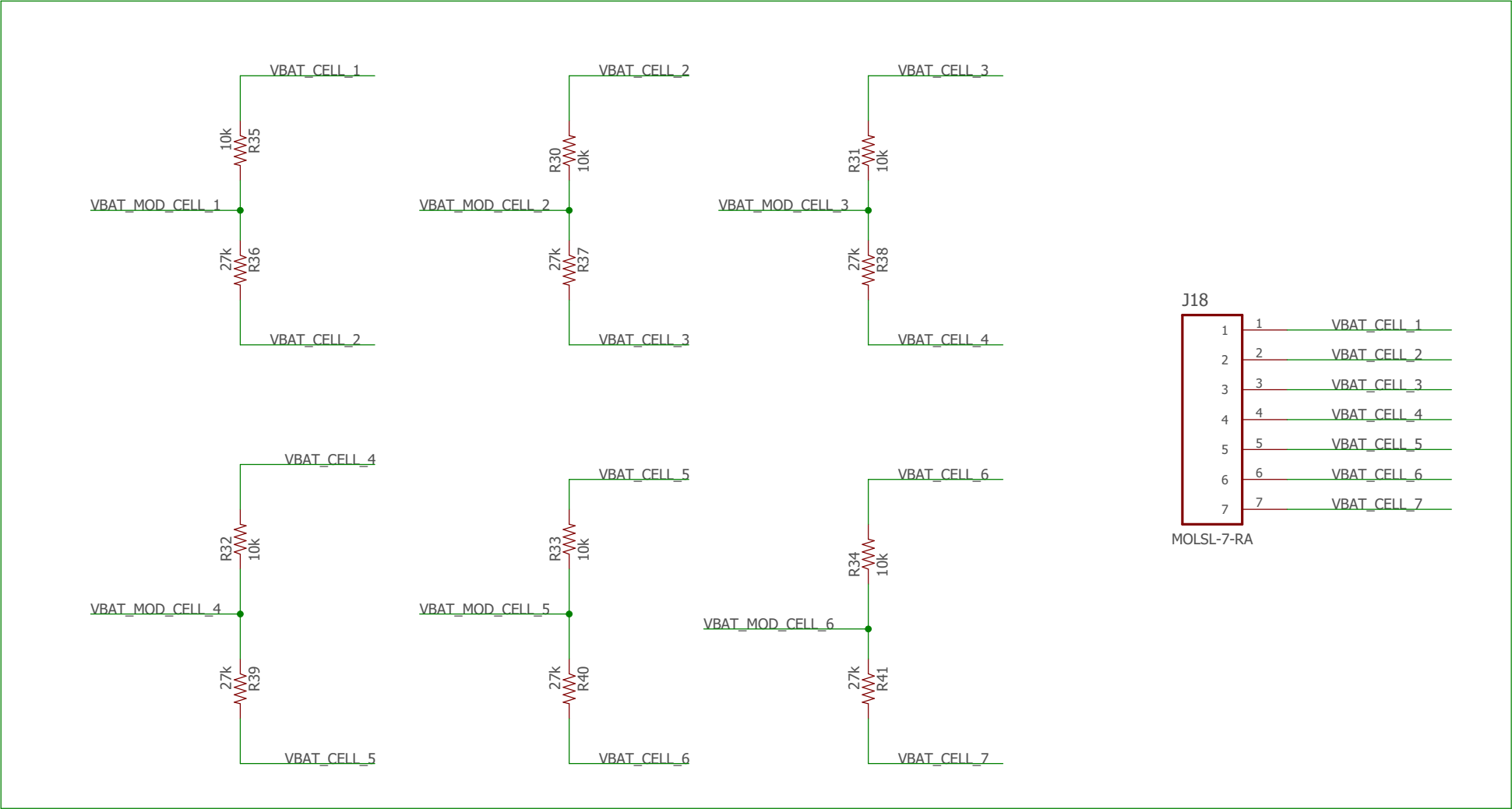
SD Card Connector



Power Management



REACTION WHEEL BATTERY VOLTAGE SENSE



HOST MSP430 HEADER

P1.2	1	2	P7.3
P1.4	3	4	P2.3
P1.5	5	6	P2.4
P3.4	7	8	P4.1
P3.5	9	10	P6.2
P5.6	11	12	P6.3
P5.7	13	14	P6.4
P7.0	15	16	P6.5
P7.1	17	18	P6.6
P7.2	19	20	P6.7

MOTOR MSP430 HEADER

P3.4_2	1	2	P7.6_2
P3.5_2	3	4	P7.7_2
P3.6_2	5	6	P6.0_2
P3.7_2	7	8	P6.1_2
P7.0_2	9	10	P6.2_2
P7.1_2	11	12	P6.3_2
P7.2_2	13	14	P6.4_2
P7.3_2	15	16	P6.5_2
P7.4_2	17	18	P6.6_2
P7.5_2	19	20	P6.7_2

RW BATTERY VOLTAGE SENSE

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