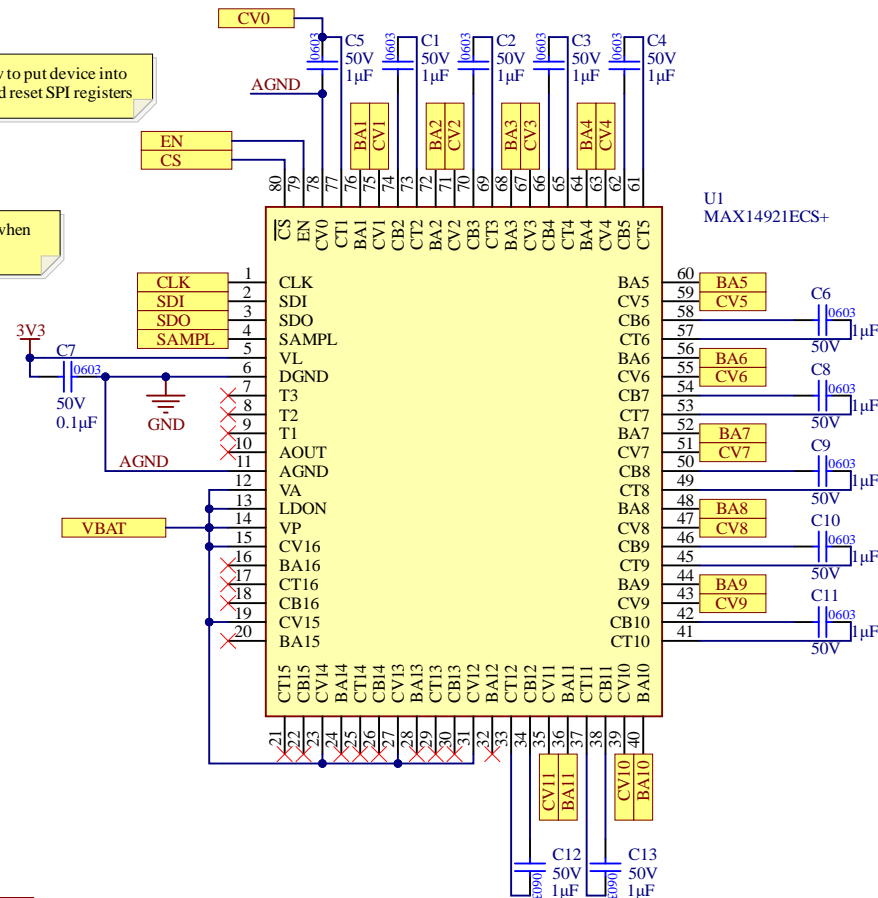


BMS

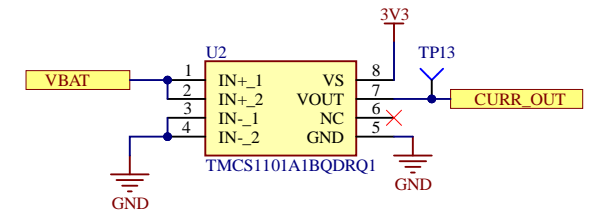
BMS IC

Set EN to low to put device into shutdown and reset SPI registers

CV_n voltages are tracked when SAMPL is high

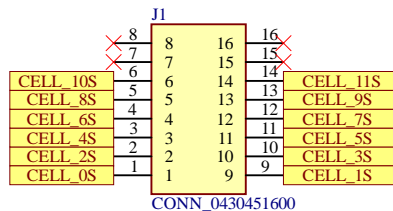



CURRENT SENSOR



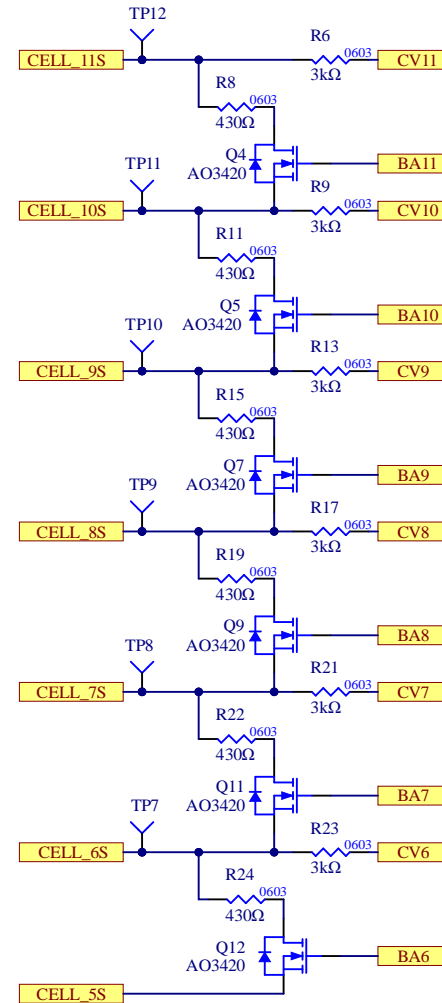
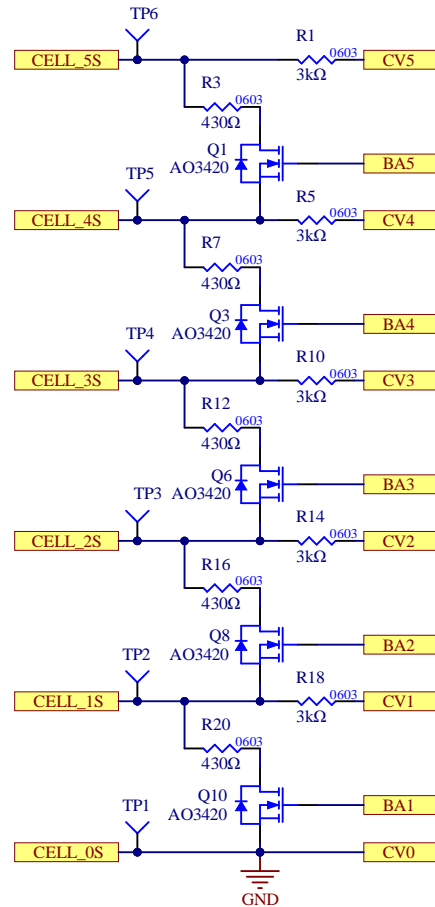
VOUT ranges from 1.65V at 0A to 3.1V at 29A

BATTERY CONNECTOR



		University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1	REV 2
PROJECT Battery Management System.PrjPcb, [No Variations]			
DOCUMENT BMS.SchDoc		MODIFIED 12/2/2021	
ENGINEER Ari Wasch		REVIEWER *	
		SHEET 1 OF 2	

Active Cell Balancing Circuit



$$R_{BAL} = V_{cell} / I$$

$$R_{BAL} = 4.2V (Max) / 10mA (Max) \approx 430\Omega$$



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REV
2

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ENGINEER
Ari Wasch

REVIEWER
*

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12/2/2021

SHEET 2 OF 2