

A

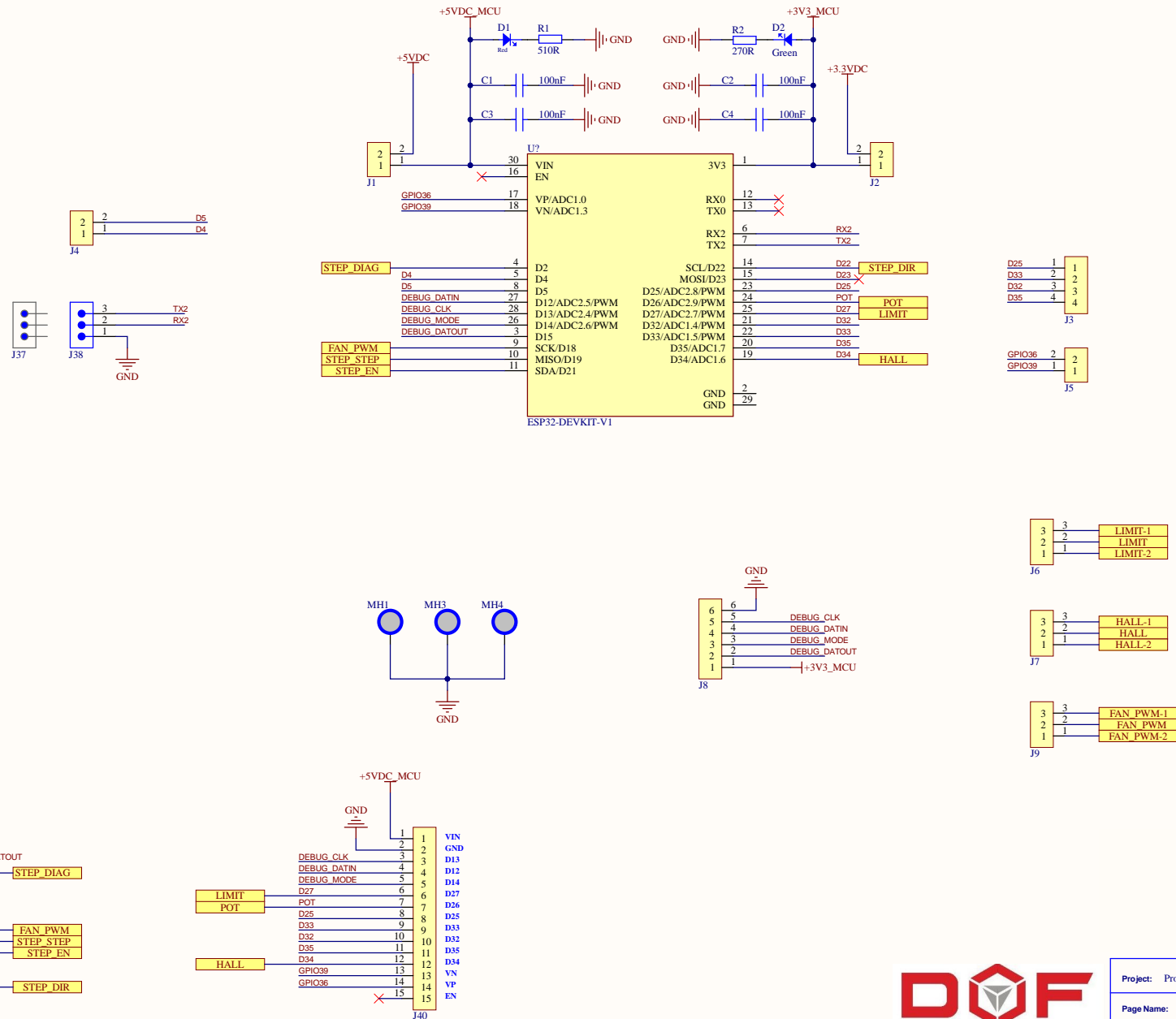


C

D

Project: DOF Robotics		Variant: [No Variations]	
Page Name: Blok_SchDoc			
Designed By:		Approved By:	
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MICROCONTROLLER



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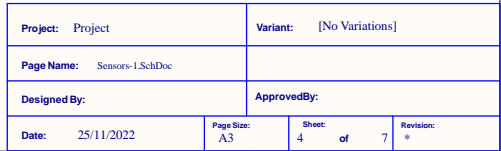
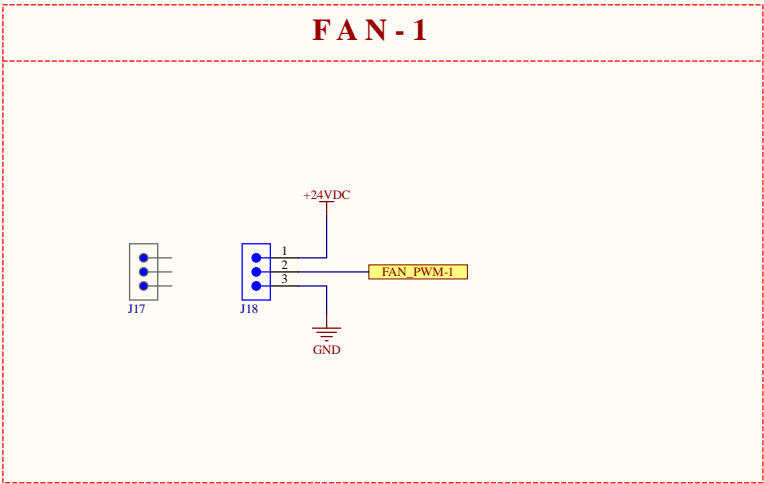
	1	2	3	4	5	6	7	8
A								
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C								
D								
	1	2	3	4	5	6	7	8

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HALL EFFECT

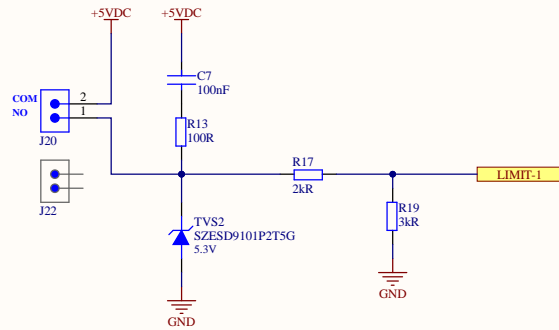
Supply Current : 4.5mA typ, 6mA max
Output Current : 20mA max

The diagram illustrates a Hall effect sensor circuit. It includes a 5VDC supply, a 5VDC supply, and a +3.3VDC supply. The circuit features a Hall effect sensor (J14), a 1kR resistor (R3), a 27kR resistor (R5), a 6.8kR resistor (R7), a 510R resistor (R9), a 100R resistor (R8), and a 100nF capacitor (C5). The output is labeled HALL-2.

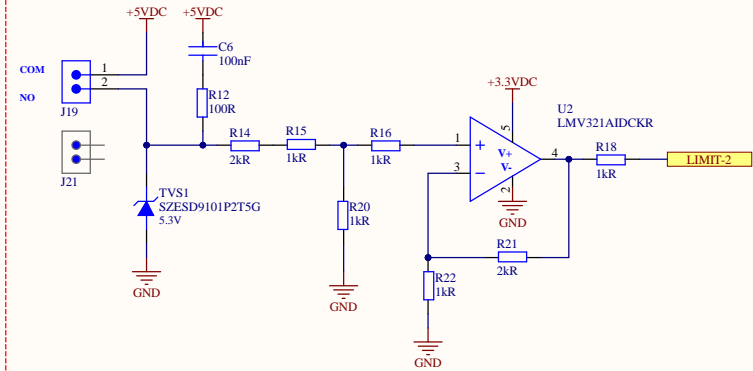


SENSORS - 2

LIMIT SWITCH - 1

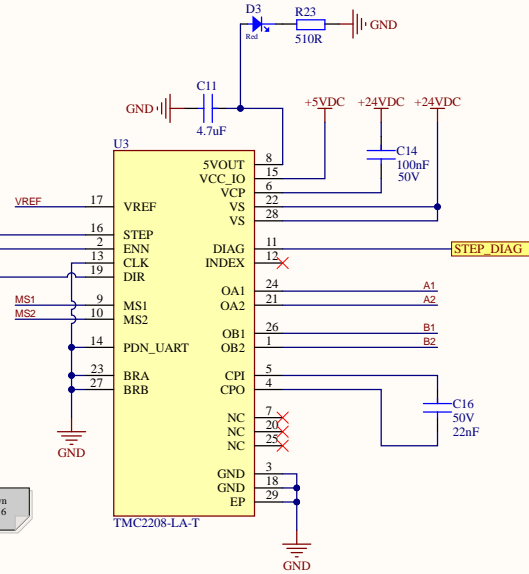
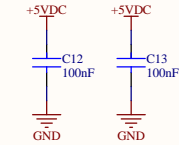
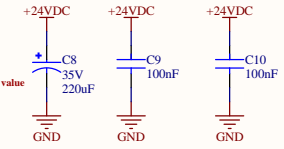


LIMIT SWITCH - 2

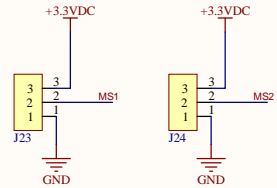


MOTOR DRIVER

220nF is pretty much high when considering also the 680uF electrolytic cap
In the following versions, you may decrease the value it is not heavy duty load

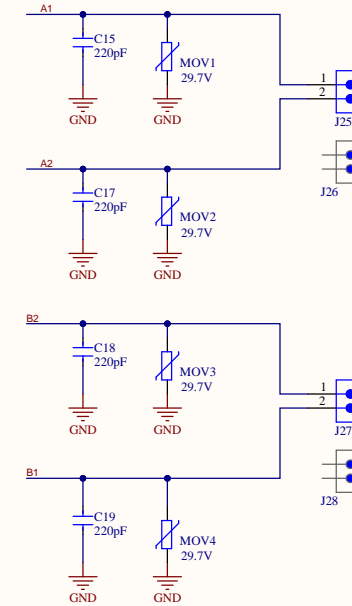
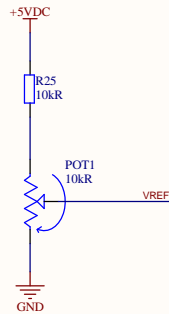


A DIR pin has internal pull-down resistor



PDN_UART CONFIGURATION OF STANDSTILL POWER DOWN
GND -> Enable automatic power down in standstill periods
HIGH -> Disable

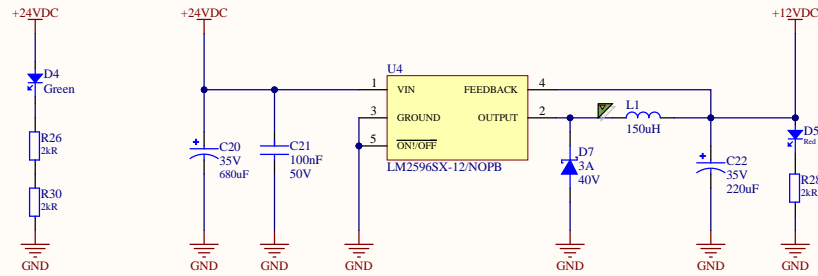
A Microstep resolution configuration (internal pull-down resistors) MS2, MS1: 00: 1/8, 01: 1/2, 10: 1/4 11: 1/16



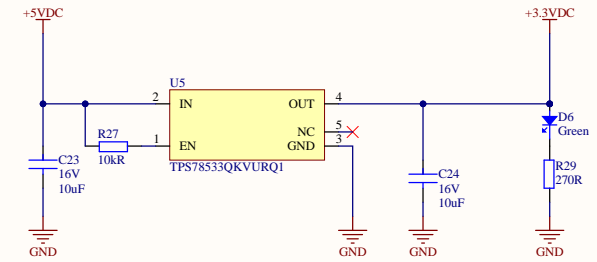
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POWER MANAGEMENT

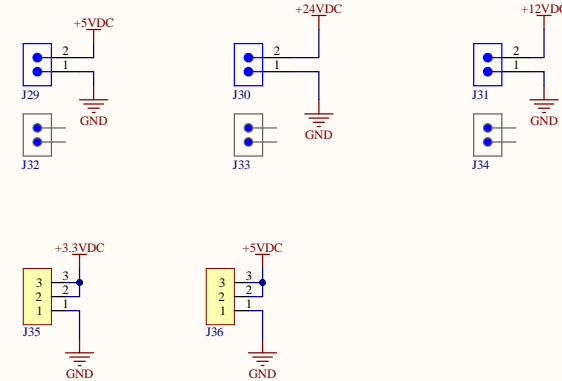
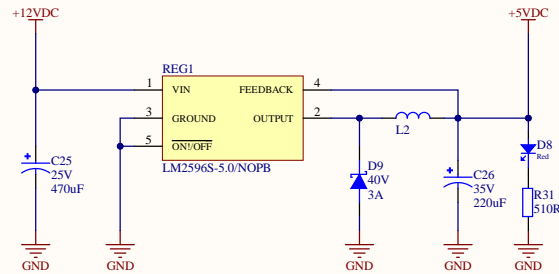
24VDC TO 12VDC CONVERTER



5VDC TO 3.3VDC LINEER REGULATOR



12VDC TO 5VDC CONVERTER



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