

Sheet: /Sensors/  
File: Sensors.sch

**Title: OpenVent Control Board**

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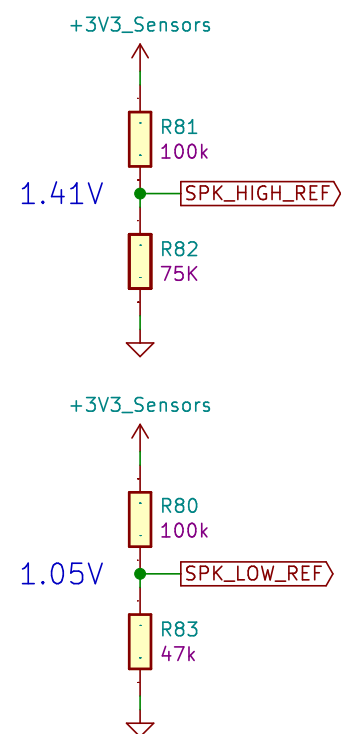
KiCad E.D.A. kicad (5.1.9)-1

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nSLEEP	IN1	IN2	OUT1	OUT2	DESCRIPTION
0	X	X	Hi-Z	Hi-Z	Sleep, (H-bridge Hi-Z)
1	0	0	Hi-Z	Hi-Z	Coast, (H-Bridge Hi-Z)
1	0	1	L	H	Reverse (OUT2->OUT1)
1	1	0	H	L	Forward (OUT1->OUT2)
1	1	1	L	L	Brake, (Low-Side Slow Decay)

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3.3v Digital, 3.3v Analog and 1.2v regulators with soft-start (ramp for FPGA)

motorcurrent has to go to fpga VIA ADC  
(NO NEED TO AMPLIFY) RANGES FROM  
0 V TO 5 V DEPENDING ON THE CURRENT GOING TO THE MOTOR

CHARGE CURRENT MAY HAVE TO BE  
BUFFERED THROUGH AN AMP AND IT  
GOES INTO ADC TO FPGA. JEFF WILL LOOK AT IT

