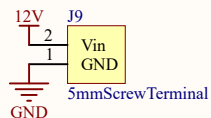
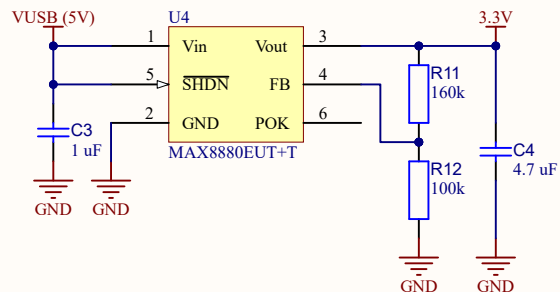
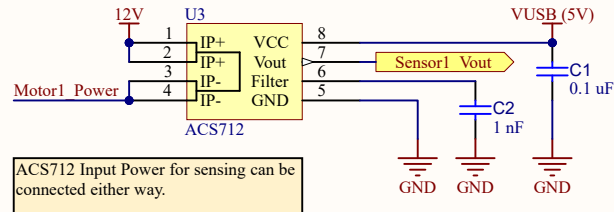
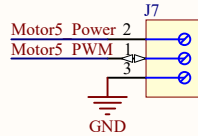
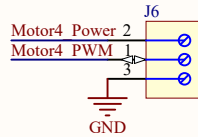
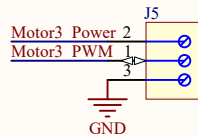
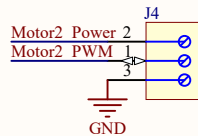
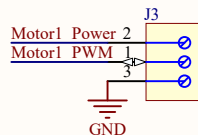
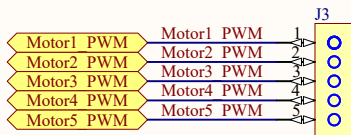


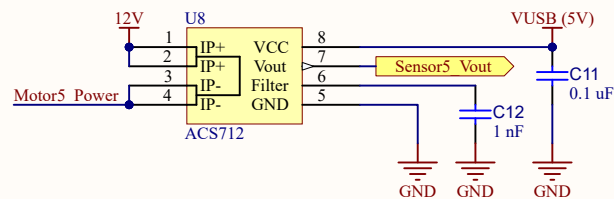
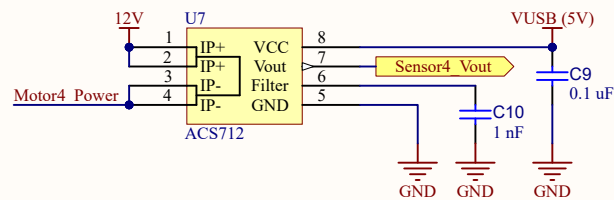
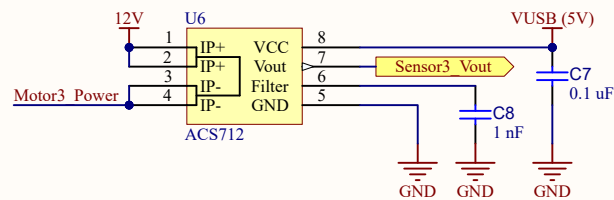
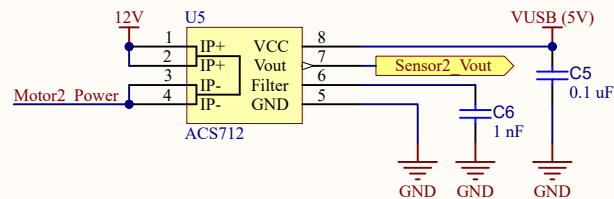
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$R_{11}$  must be 1.6 times  $R_{12}$  to achieve output voltage close to 3.3V.  
 $V_{fb} = 1.257$ ,  
 $V_{out} = V_{fb} * (R_{11} + R_{12}) / R_{12} = 3.268$  V.  
Settin  $R_{12}$  to 1 megaohm and calculating  $R_{11}$  would result in marginally less current consumption.



ACS712 Input Power for sensing can be connected either way.



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