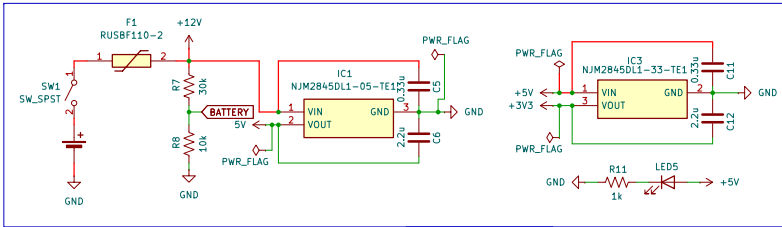


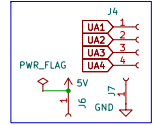
Power Supply



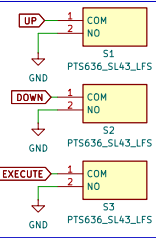
$$V_{ADC} = V_{bat} \cdot R_2 / (R_1 + R_2)$$

$R_1 = 30k$
 $R_2 = 10k$
 $V_{bat} = 12V$
 $V_{ADC} = 3V$

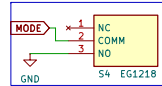
Universal Area



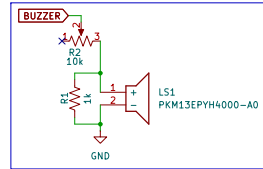
UI Switch



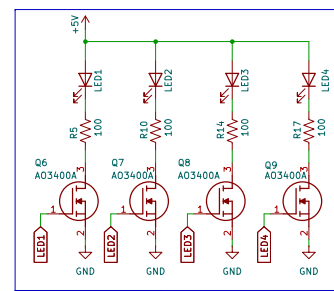
Mode Switch



Buzzer



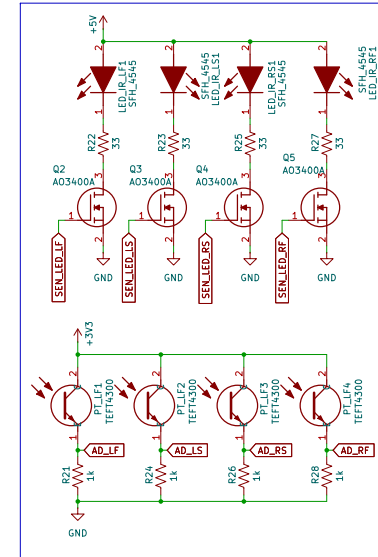
UI LED



$$R = (V_{supply} - V_f) / I_f$$

$V_{supply} = 5V$
 $V_f = 2.0V$
 $I_f = 30mA$
 $Result_R = 100$

Wall Sensor

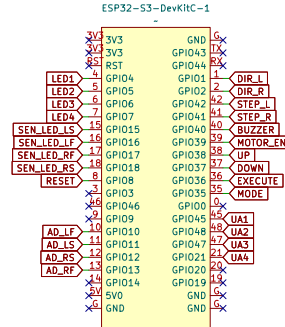


$$R = (V_{supply} - V_f) / I_f$$

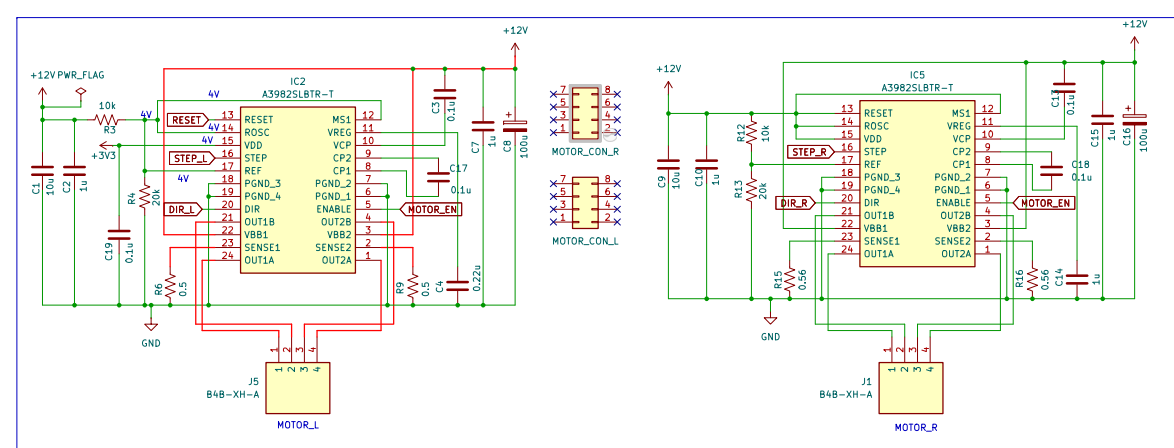
$V_{supply} = 5V$
 $V_f = 1.7V$
 $I_f = 100mA$
 $Result_R = 33$

$$R = V_{cc} / I_c$$

$V_{cc} = 3V3$
 $I_c = 3.2mA$
 $Result_R = 1.03k = 1k$



Motor Driver



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