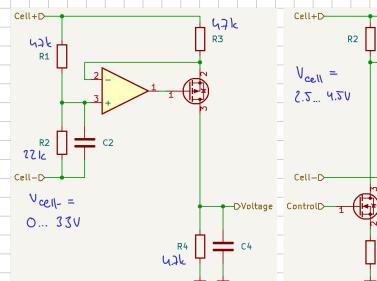
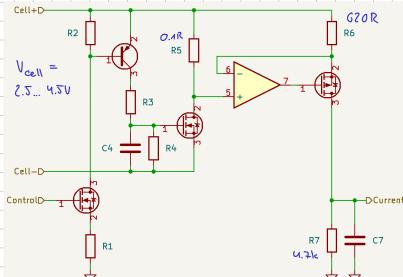
Analoge Dimensionierung





Spannungsmessung:

$$V_{ADC} = V_{Cell} \cdot \frac{R_{A}}{R_{A}R_{Z}} \cdot \frac{R_{U}}{R_{S}} \implies \frac{V_{ADC}}{V_{Cell}} = \frac{R_{A}}{R_{A}R_{Z}} \cdot \frac{R_{U}}{R} \approx \frac{0.825 \text{V}}{\text{V.SU}} = 0.183$$

$$R_{V_{A}} = R_{J_{A}} = \frac{0.825 \text{V}}{0.100 \text{A}} = 8.3 \text{I} \cdot \Omega - 2.0 \text{I} \cdot \Omega$$

$$\frac{R_{A}R_{Z}}{R_{A}} = 1 + \frac{R_{Z}}{R_{A}} = 5.47 - 2.0 \text{I} \cdot \Omega$$

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Strommessing:

$$V_{ADC} = I_{Gal} \cdot R_5 \cdot \frac{R_3}{R_6} \Rightarrow \frac{V_{ADC}}{I_{Gal}} = R_5 \cdot \frac{R_3}{R_6} \approx \frac{0.875V}{AA} = 0.825 \Omega$$

$$R_5 = \frac{P_{0603}}{I_{Gal}} = \frac{O.AW}{AA} = 0.1 \Omega$$

$$V_{ADC} = V_{R5} \cdot \frac{R_3}{R_6} \Rightarrow \frac{V_{ADC}}{V_{R5}} = \frac{R_3}{R_6} \approx \frac{0.825V}{0.AV} = 8.75$$

$$R_7 = 4.7 I_C \Omega$$
 Theoremen Uch Spanningsmessing

