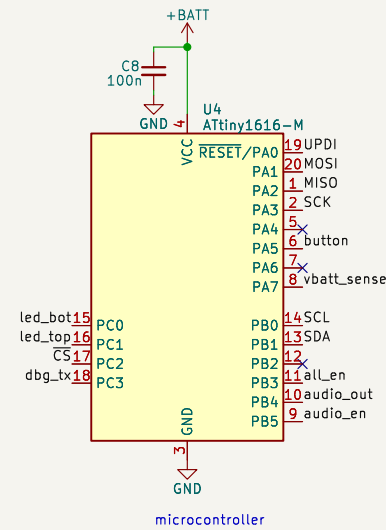
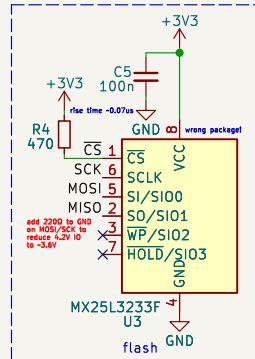
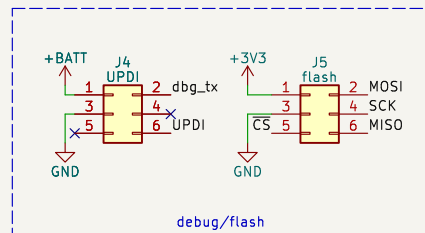
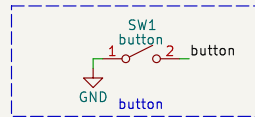
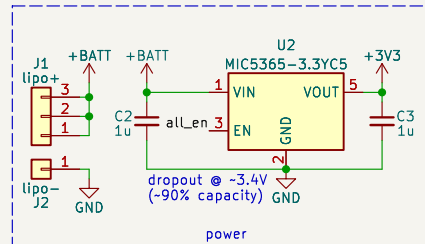
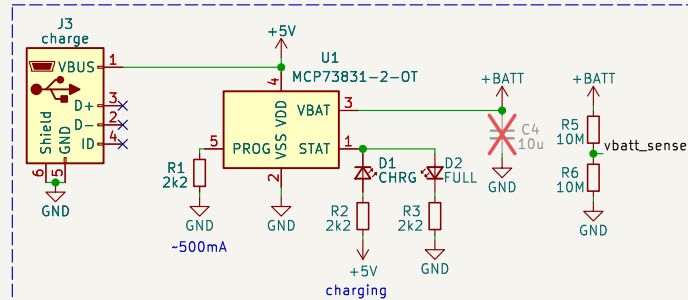
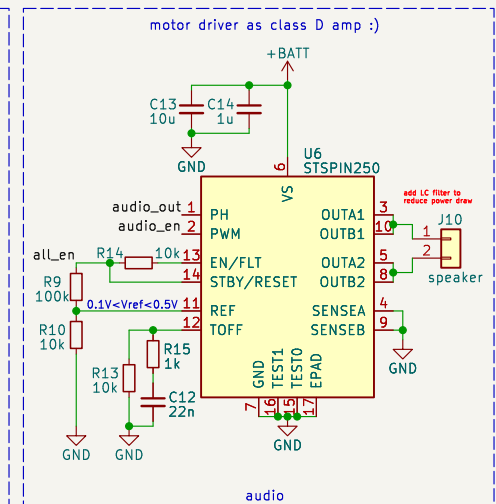
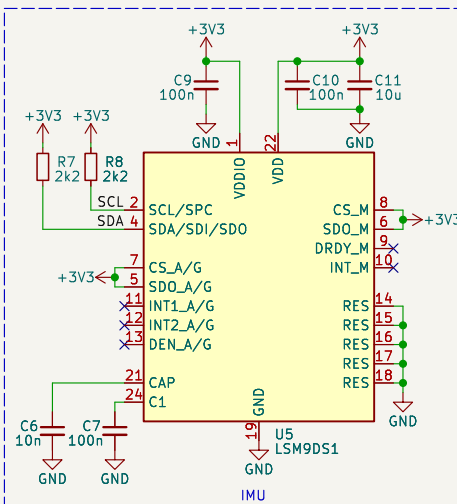
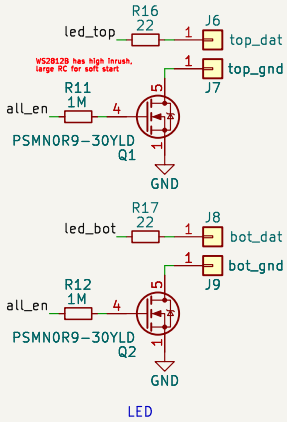




worst case analysis:
 $250\text{LED} * 50\text{mA}/\text{LED} = 12.5\text{A}$
 $R_{ds} @ 3.5\text{Vgs} = 1.2\text{m}\Omega$
 $V_{ds} = 15\text{mV}$
 $P = I * V = 0.1875\text{W}$
 $0.1875\text{W} * 125\text{K}/\text{W} = 23.4375\text{C}$



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