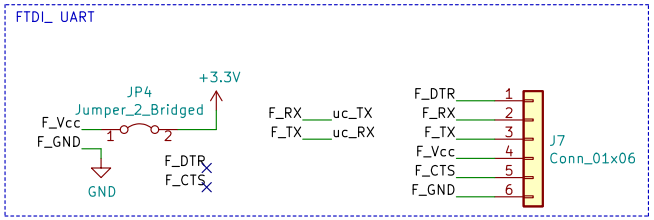

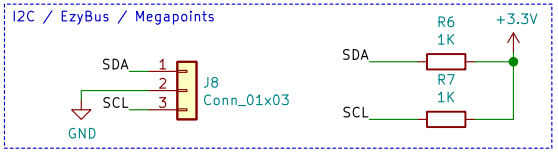

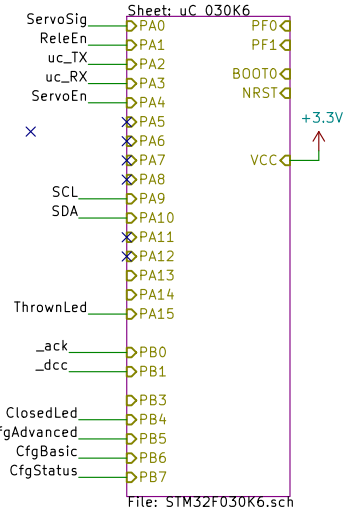

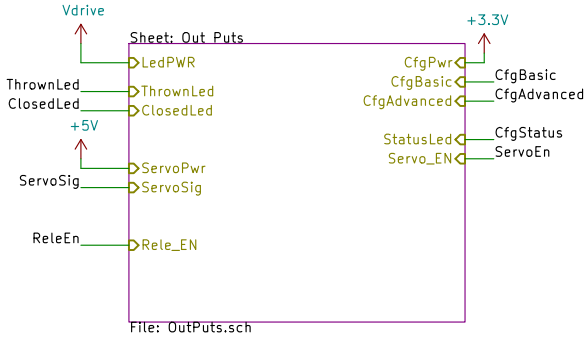

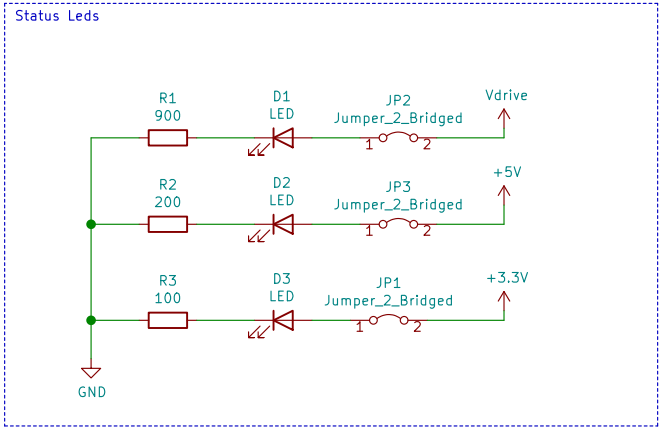

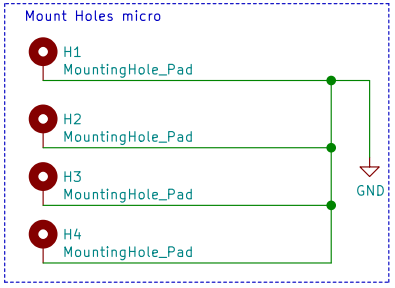

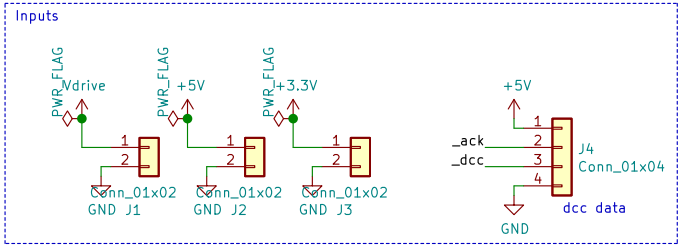

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Led Resistance Calc for 15ma and 2.5V led:

12 V -> 9.5/15*1000 -> 633 Ohm
14 V -> 11.5/15*1000 -> 766 Ohm
20 V -> 17.5/15*1000 -> 1166 Ohm

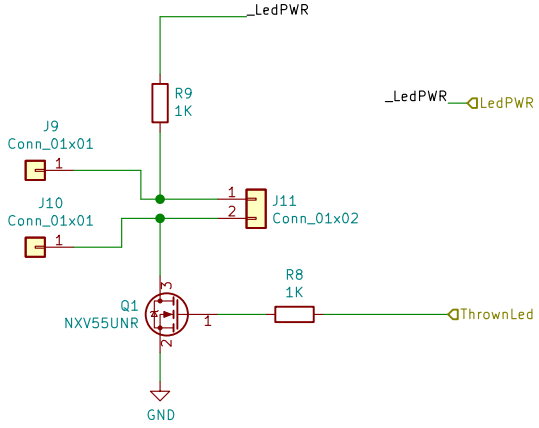
Using a 1K resistor:

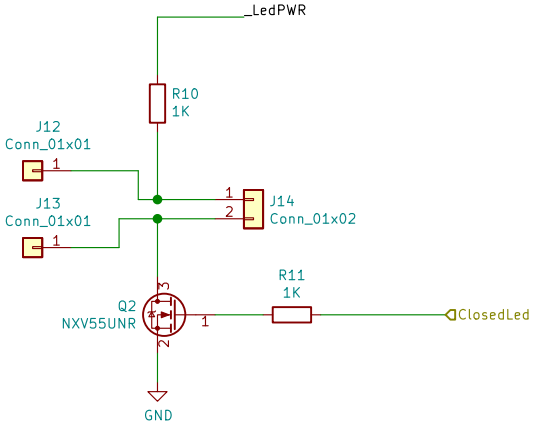
In \ Led:	2V	2,5V	3V
12V	10ma	9,5ma	9ma
14V	12ma	11,5ma	11ma
20V	18ma	17,5ma	17ma

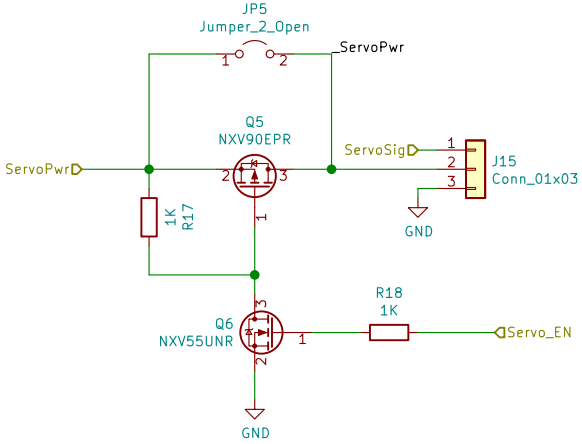
Expected case:
12V input, & 2.5V led -> near 10 mAmps, ligh ok

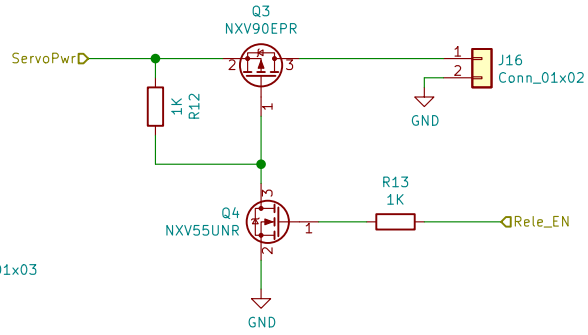
WorstCases:
12V input, & 3V led -> 9 mAmps, Acceptable
20V input, & 2V led -> 18 mAmps, under <20ma specs

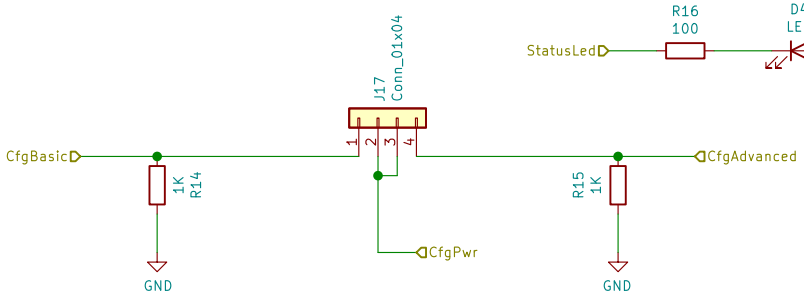
Future: add a 1K trimmer with 500 Ohm in series











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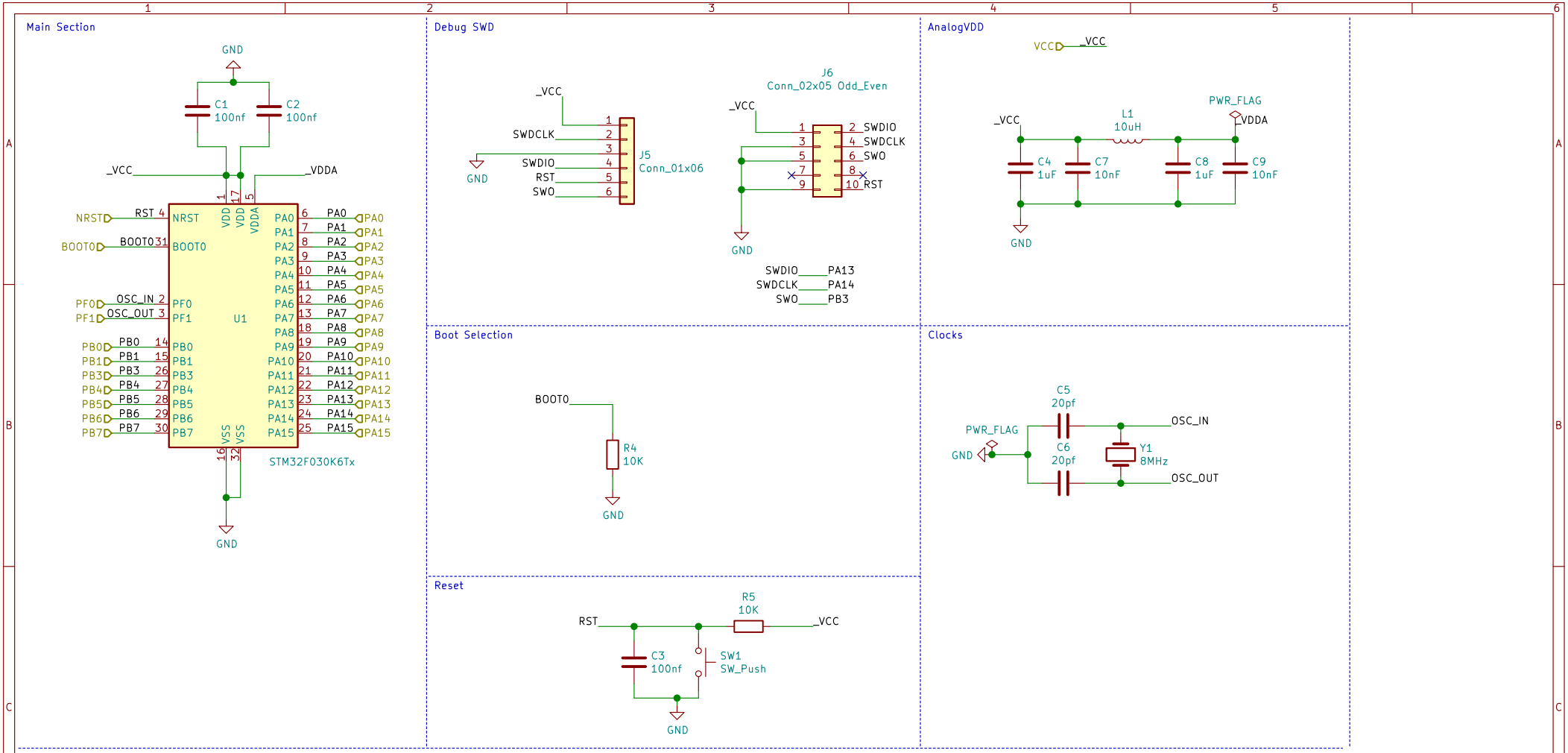

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