

Sheet: sensors



File: sensors.sch

Sheet: breakout



File: breakout.sch

Sheet: bluetooth



File: bluetooth.sch

Sheet: sdcard



File: sdcard.sch

Sheet: HMI



File: HMI.sch

Sheet: power



File: power.sch

Sheet: powertrain



File: powertrain.sch

Sheet: servos



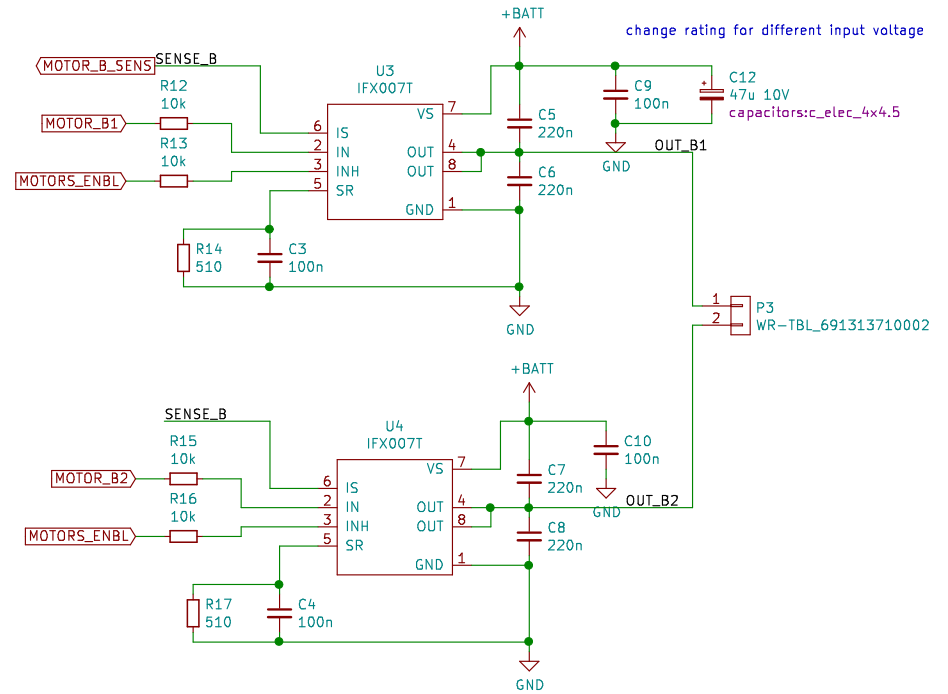
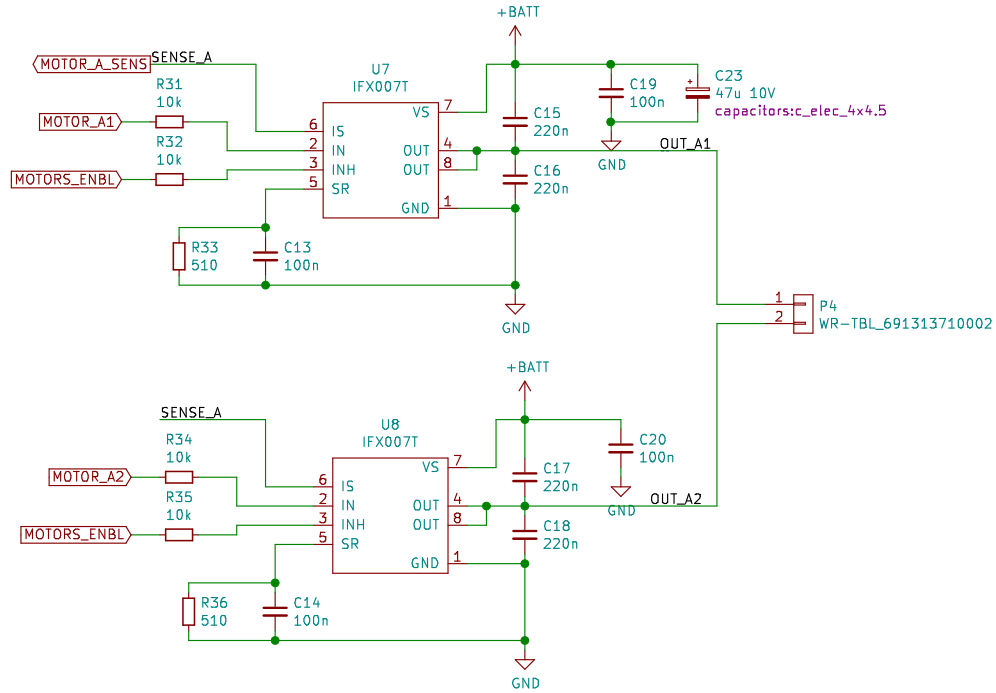
File: servos.sch

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Sheet: /
File: driveshield.sch

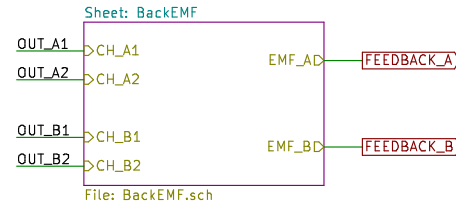
Title: nxpboard

Size: A4 Date: 2020-06-26
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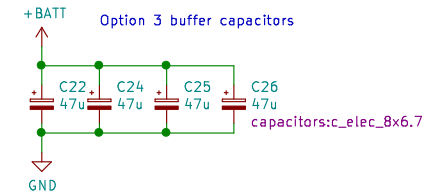
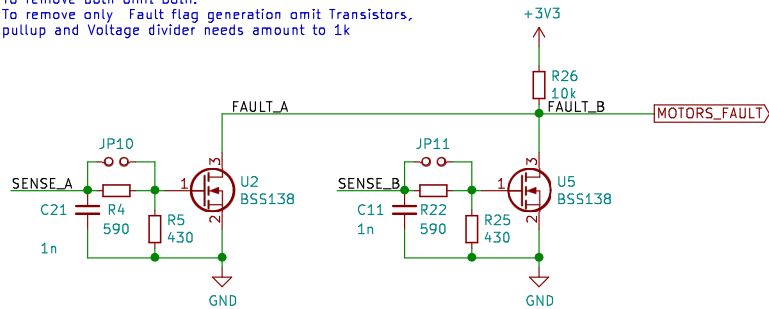
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Option 1 Back EMF measurement for speed regulation, to remove omit



Option 2 Fault Condition Flag and current Sensing (backwards compatibility to FRDM-PFC). Current sensing needs to be enabled via solder jumpers on root sheet. To remove both omit both. To remove only Fault flag generation omit Transistors, pullup and Voltage divider needs amount to 1k



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Sheet: /powertrain/
File: powertrain.sch

Title: nxpboard

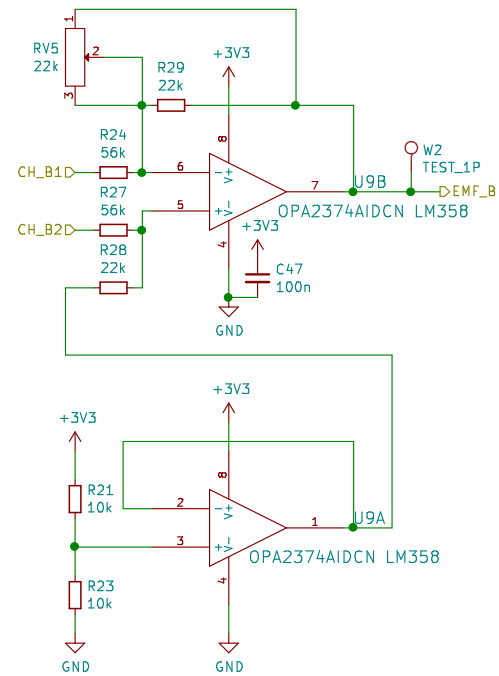
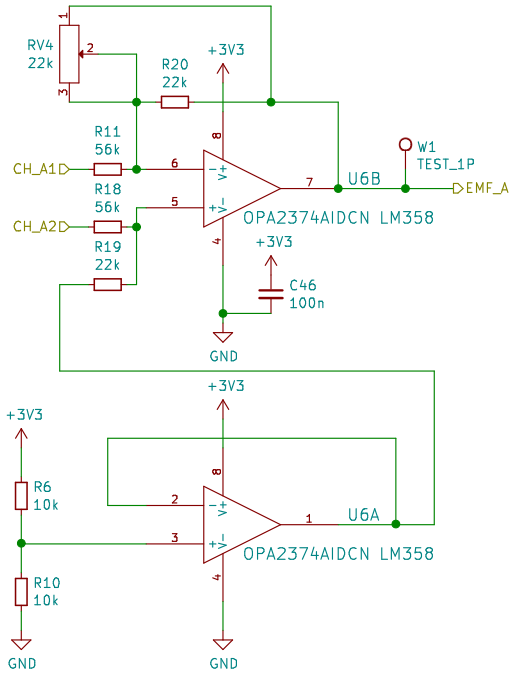
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Measure up to about 5V according to Model C car motors. Other gain for other car types

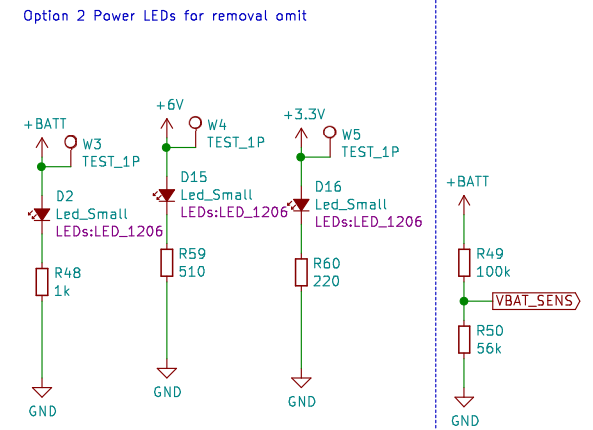
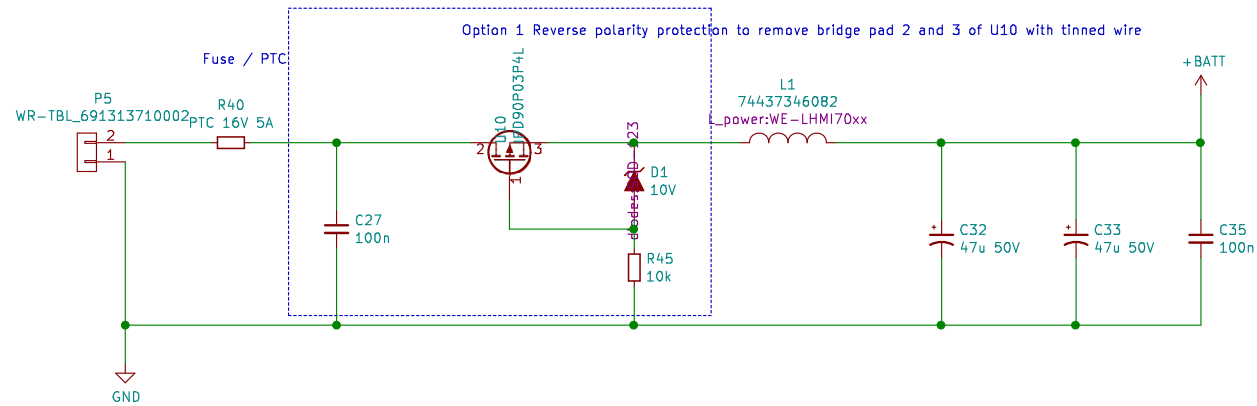


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File: BackEMF.sch

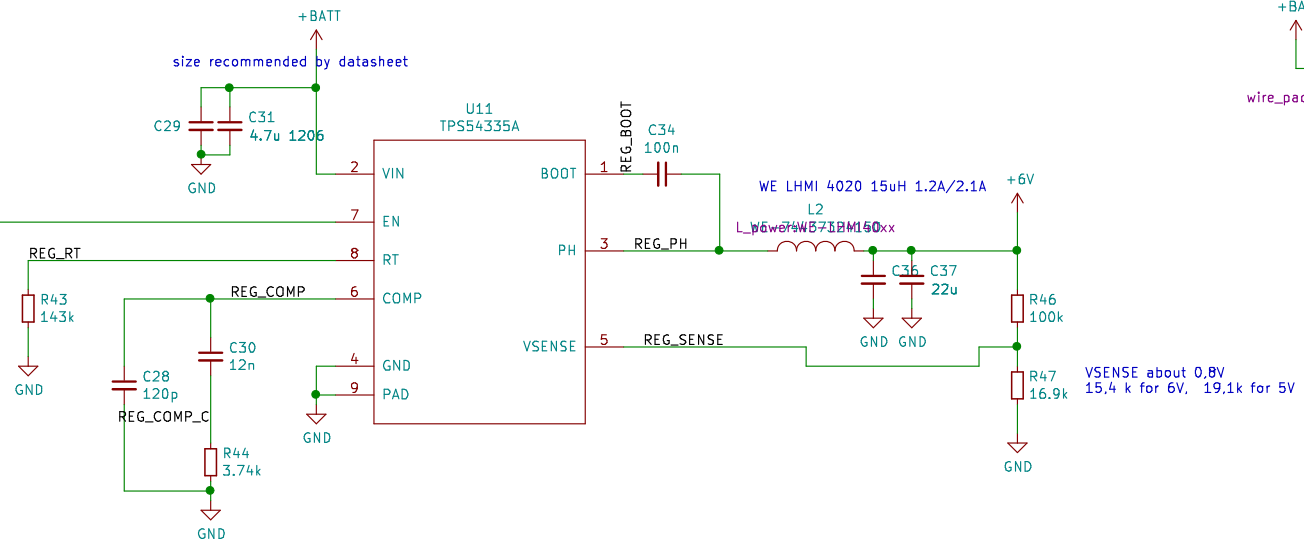
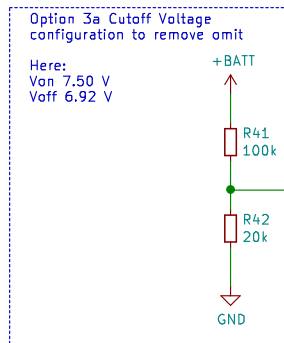
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Size: A4 Date:
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Option 3 generate 6V for Servos from VBATT, to remove omit and close JP9



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Sheet: /power/
File: power.sch

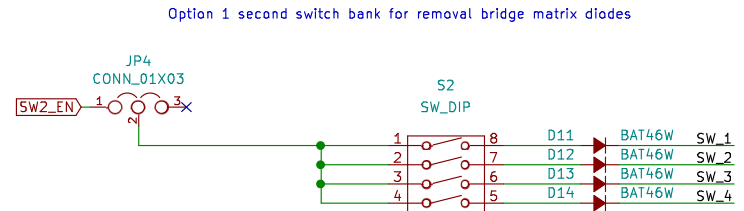
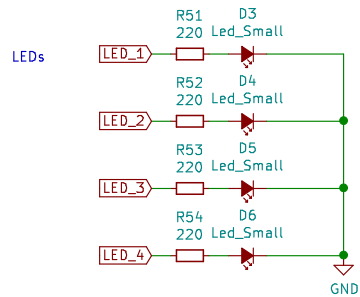
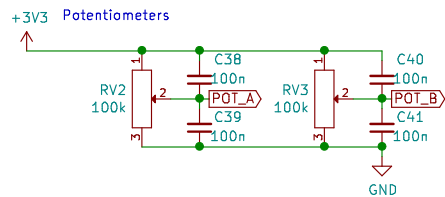
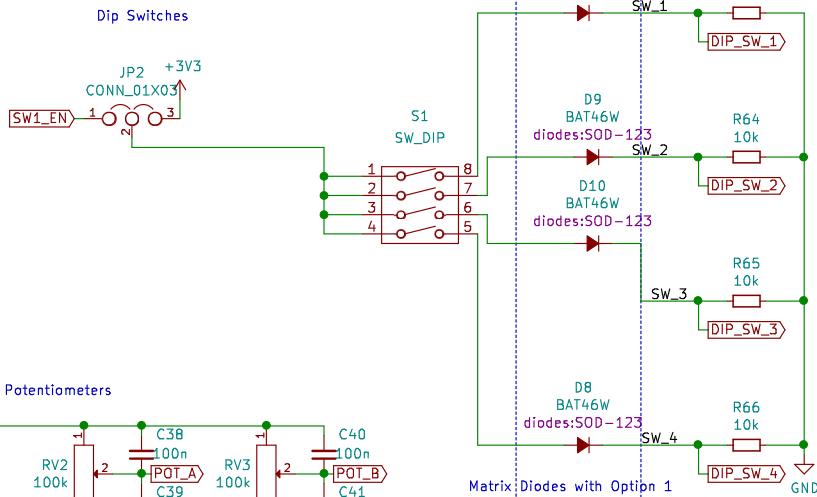
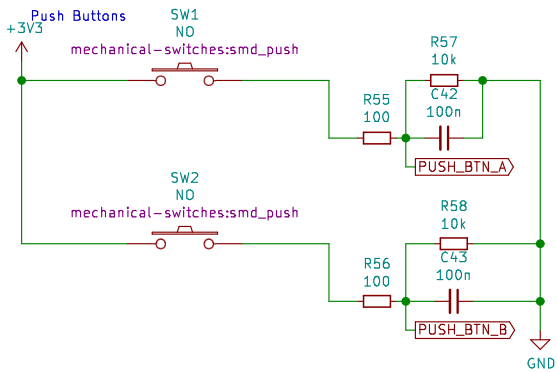
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Size: A4 Date: 2020-06-26

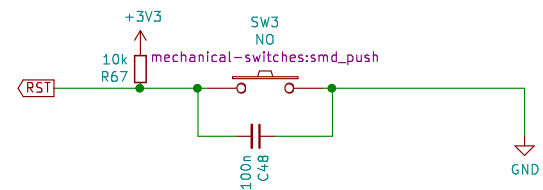
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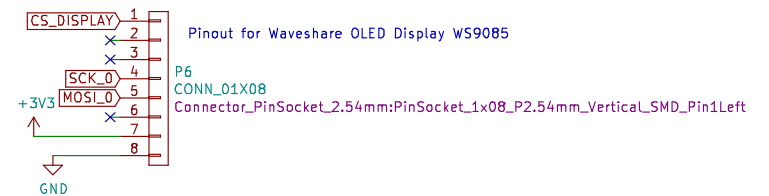
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Option 2 reset swit for removal omit



Option 3 Display header for removal omit with degraded spi lines



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Sheet: /HMI/

File: HMI.sch

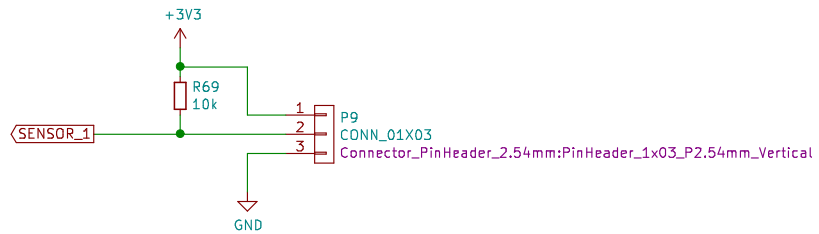
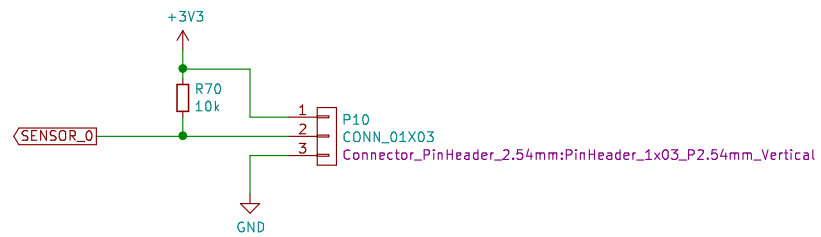
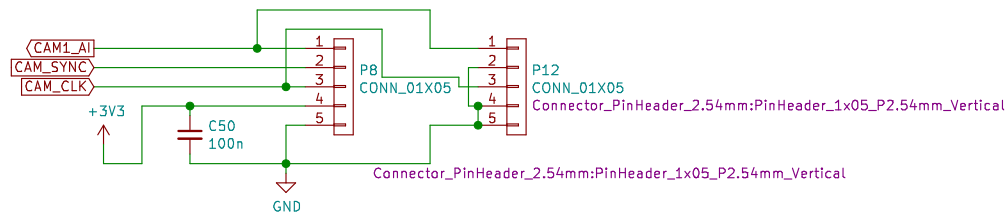
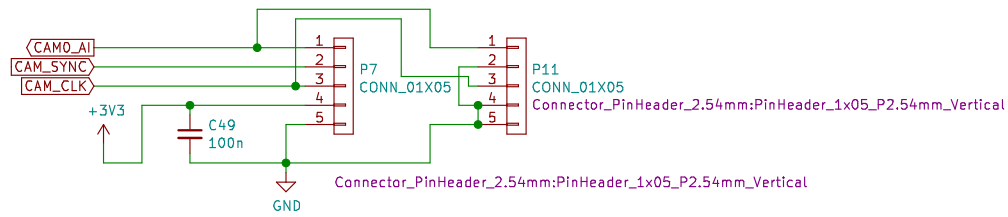
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Sheet: /sensors/
 File: sensors.sch

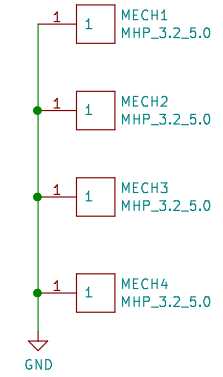
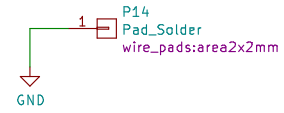
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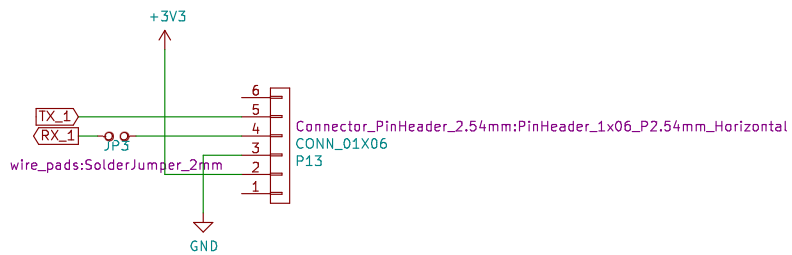
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Sheet: /breakout/
File: breakout.sch

Title: nxpboard

Size: A4 Date: 2020-06-26
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

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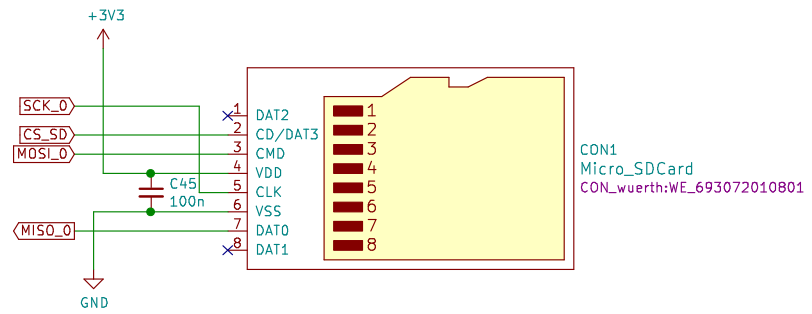
THD

Sheet: /bluetooth/
File: bluetooth.sch

Title: nxpboard

Size: A4 Date: 2020-06-26
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Sheet: /sdcards/
File: sdcards.sch

Title: nxpboard

Size: A4 Date: 2020-06-26

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev: 0.2

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