

MPPT Solarboot Team HS Emden  
Wilhelm Zeuschner

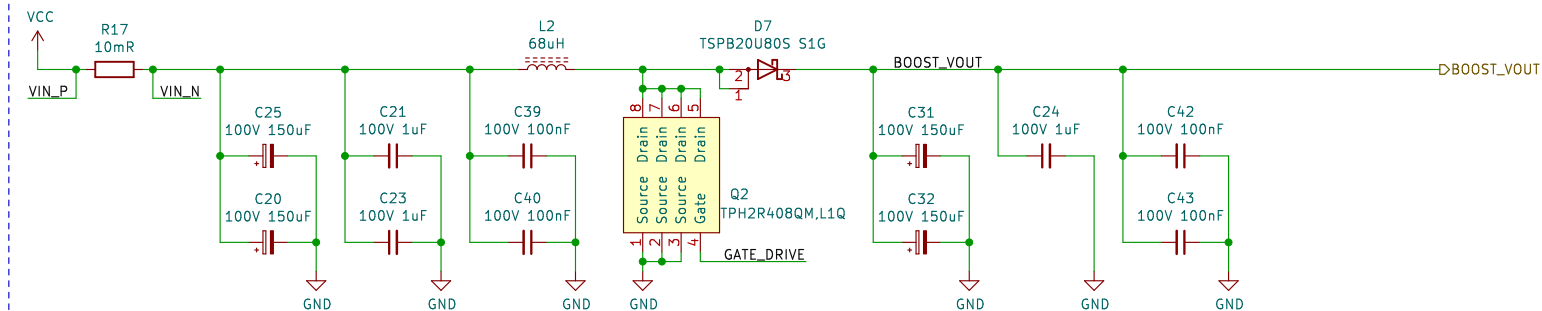
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**Title: MPPT**

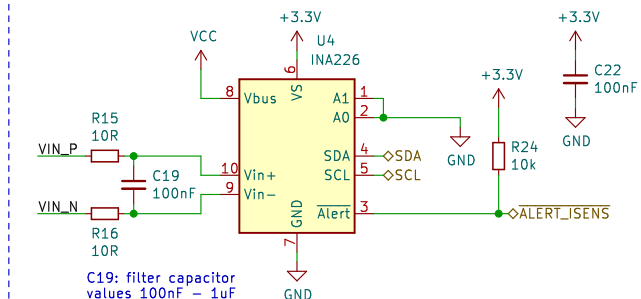
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KiCad E.D.A. kicad (6.0.2)

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# Boost converter:

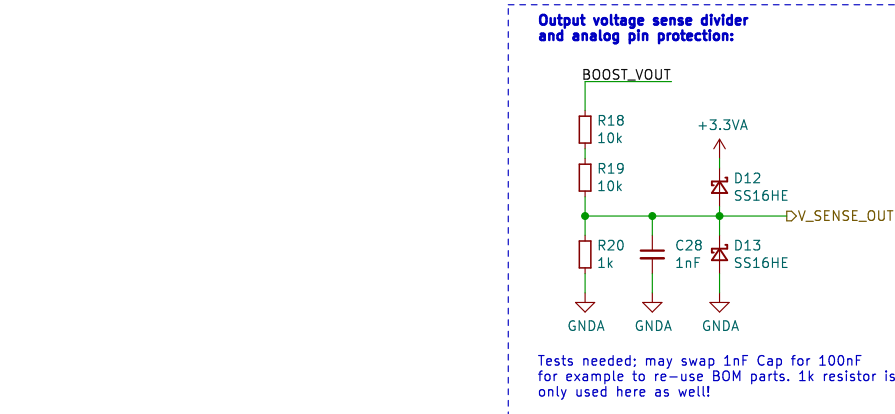


# INA226 power sensor:



C\_Filt: 100nF bis 1uF Keramikkondensator.  
Weitere Tests und Messungen sind nötig.  
Mehr Informationen im Datenblatt auf S. 14.

Shut-Widerstandsrechnung:  
<https://training.ti.com/getting-started-current-sense-amplifiers-session-15-programming-power-settings>

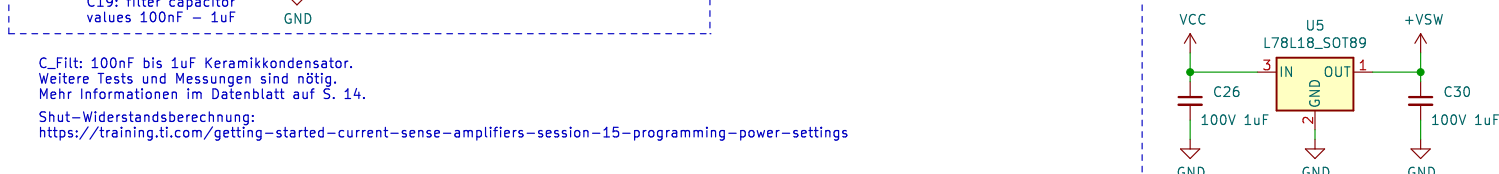


Tests needed; may swap 1nF Cap for 100nF  
for example to re-use BOM parts. 1k resistor is  
only used here as well!

# Gate driver:



# Gate driver power supply (18V):



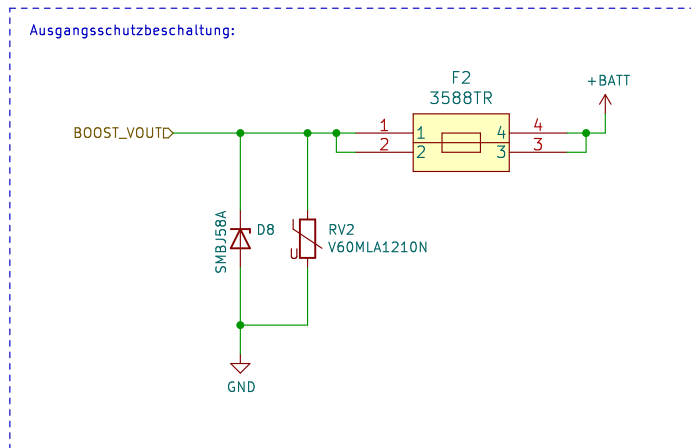
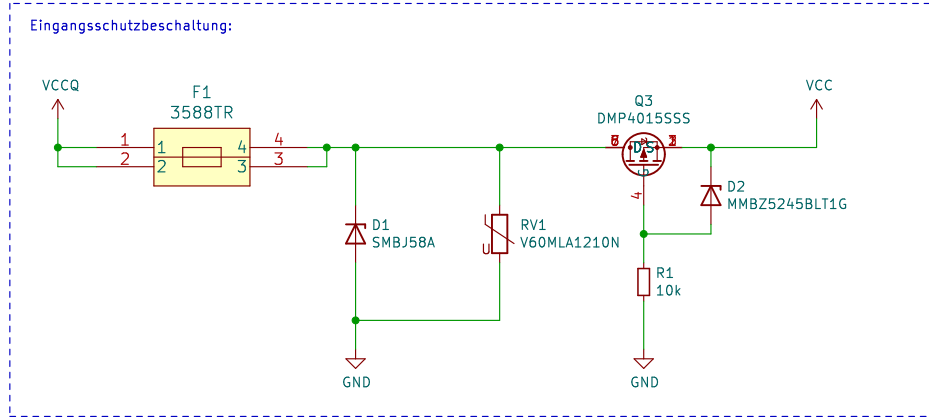
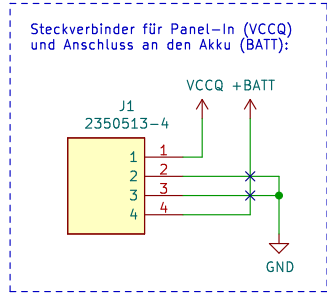
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Sheet: /MPPT\_Power\_In\_Out/  
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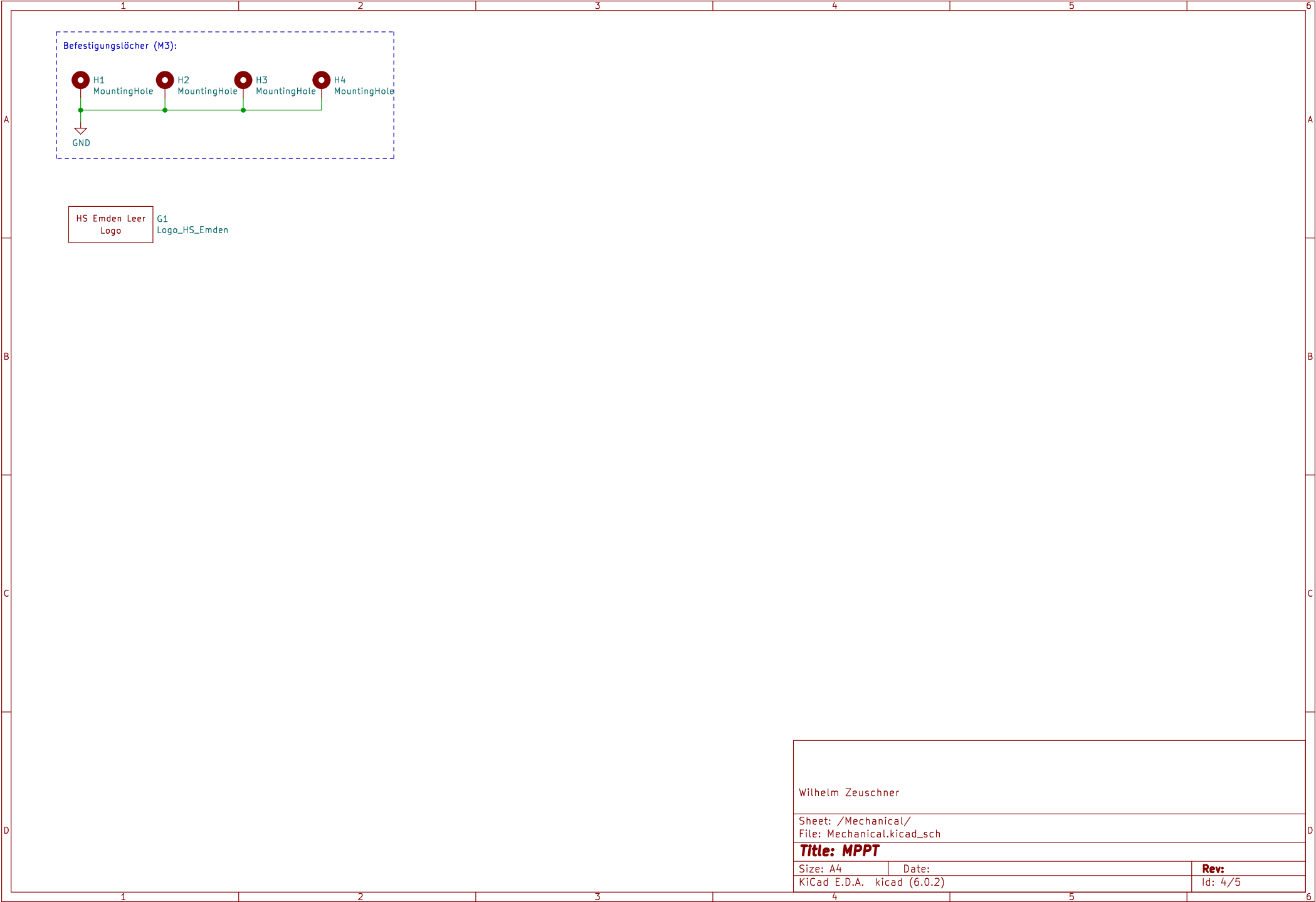
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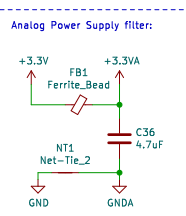
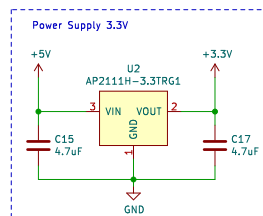
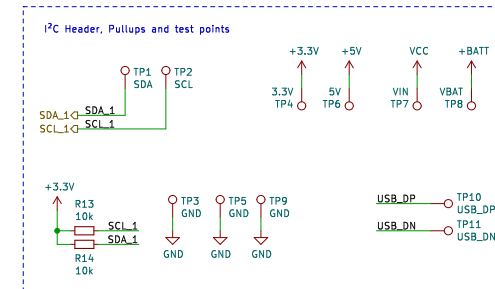
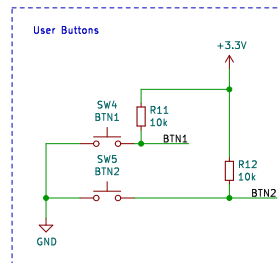
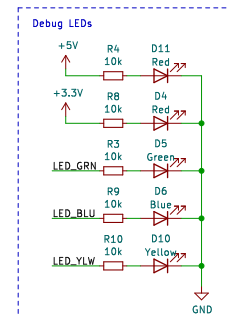
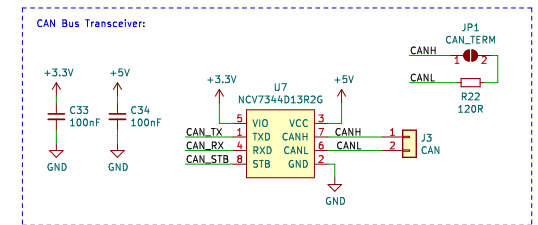
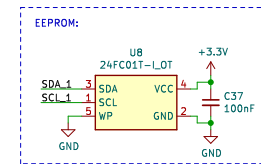
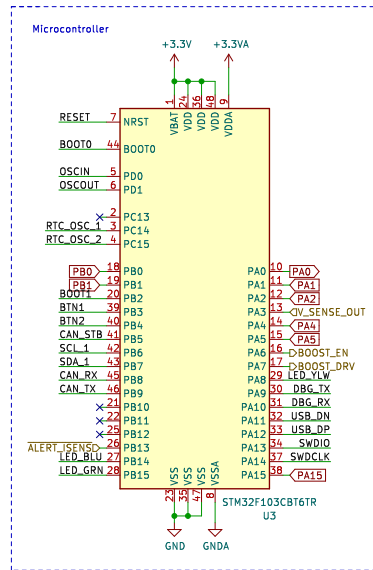
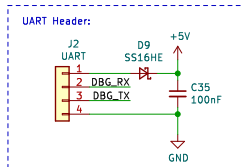
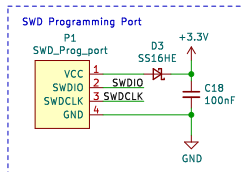
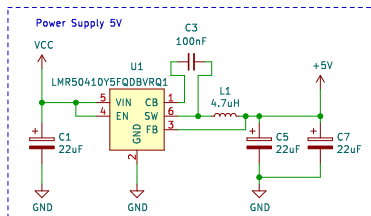
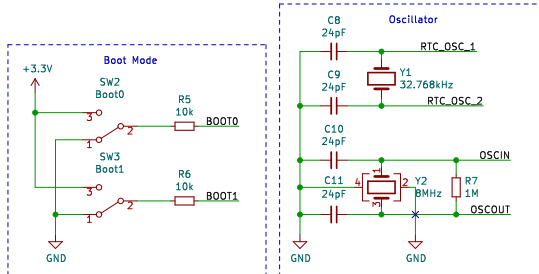
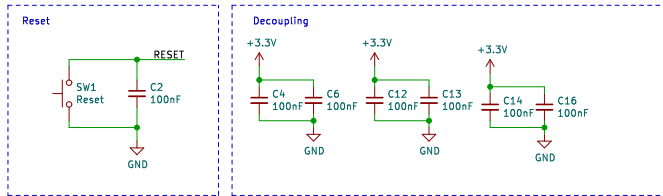
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**Title: MPPT**

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File: Microcontroller.kicad\_sch

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Size: A3 Date: 2020-11-16  
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