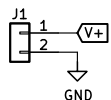
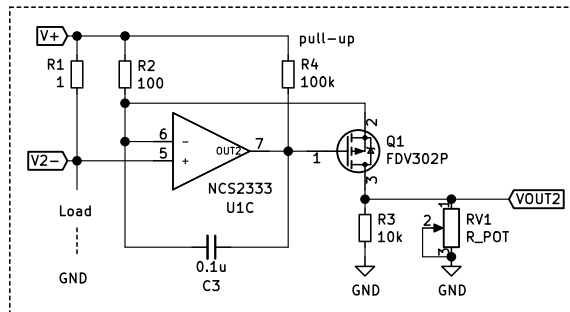
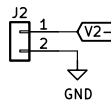


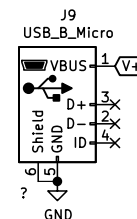
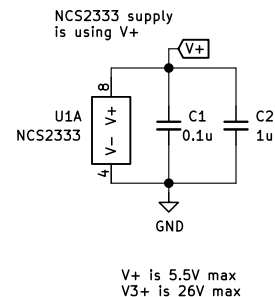
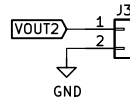
V+ is shared between high-side and low-side circuits



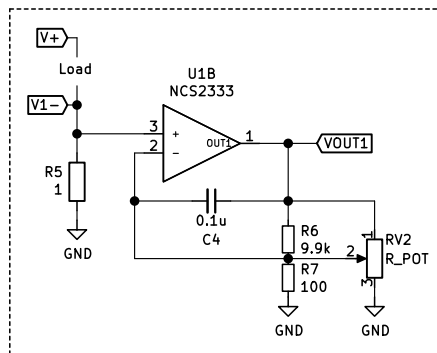
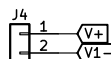
Load connection, if sensing high-side.



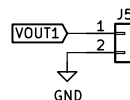
High-side current sensing: op amp + transistor;  
Similar to ZXCT1009 or LTC6102.



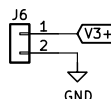
Load connection, if sensing low-side.



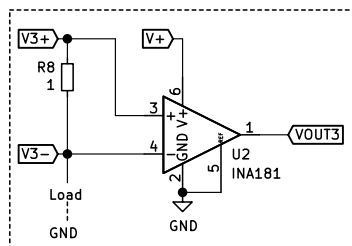
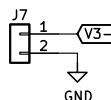
Simple low-side current sensing



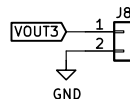
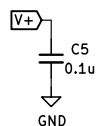
Supply connection, if sensing high-side.



Load connection, if sensing high-side.



High-side current sensing with INA181.  
INA181 has separate (the shared V+) supply.  
Using INA181A3 variant with 100V/V gain



(C) Vlad Belous  
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Sheet: /  
File: pcb-lab-2.sch

**Title: PCB Lab 2**

Size: USLetter Date: 2020-06-14

KiCad E.D.A. kicad 5.1.6

**Rev:**

Id: 1/1