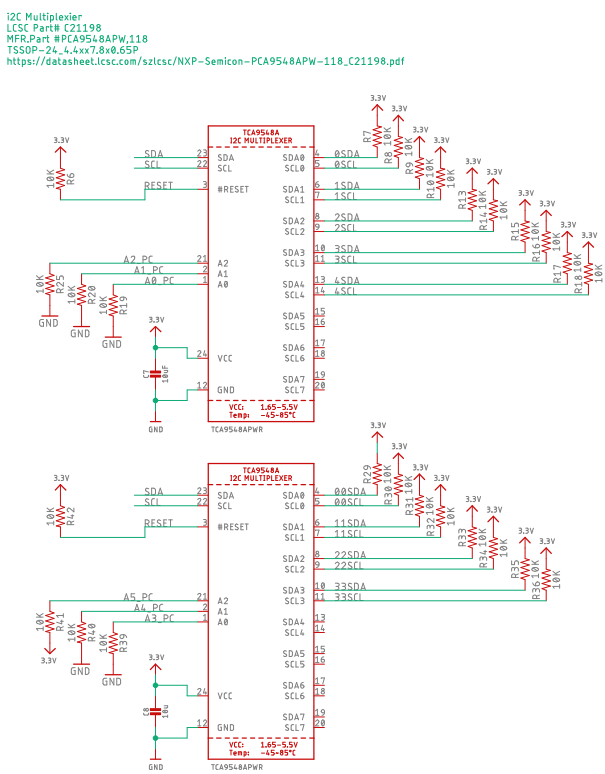
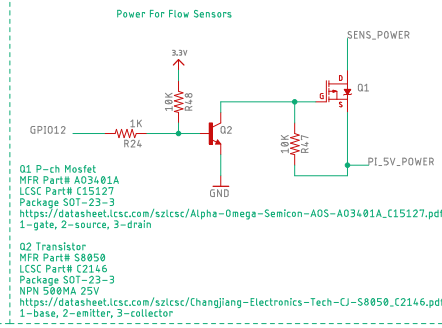
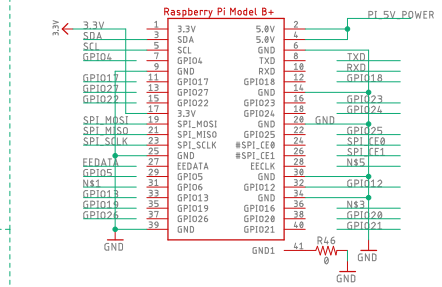
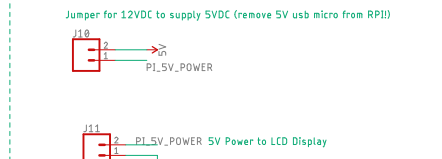
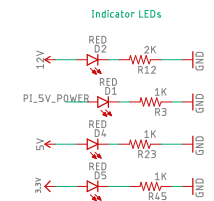
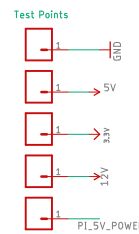
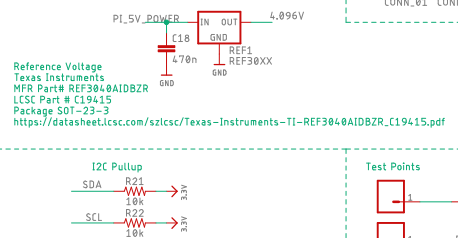
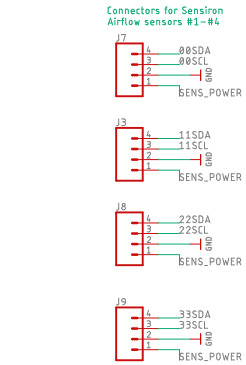
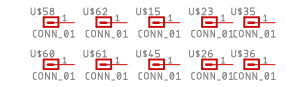
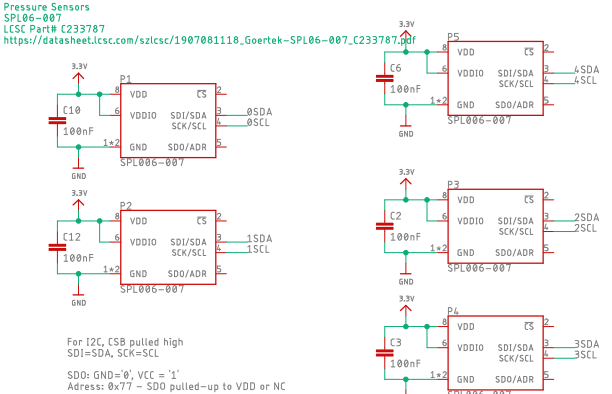
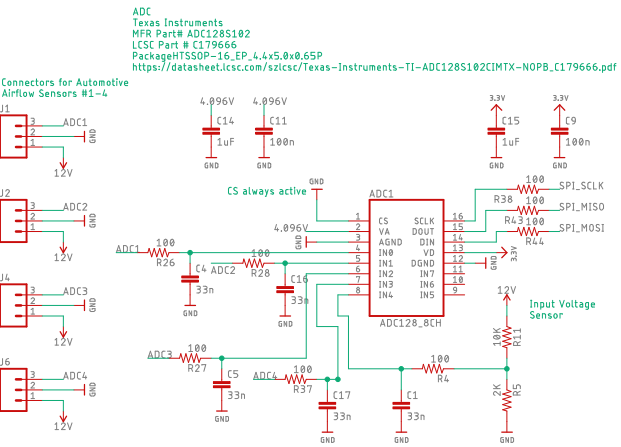


version 004 12/5/2020
- add new 5V regulator

version 003
- removed piezo buzzer
- used transistor/P-ch mosfet for triggering sensinon power
- added 33nF capacitor on the 5V power regulator based on rev1.6 of the data sheet



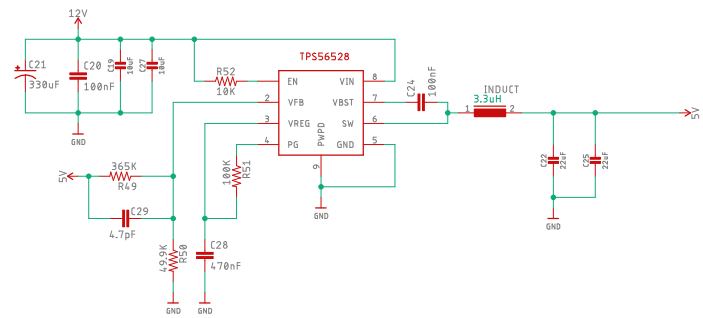
Regulator - TP556528DDAR
https://datasheet.lcsc.com/szlcsc/1805310826_Texas-Instruments-TP556528DDAR_C138716.pdf
LCSC Part# C138716

Package SOIC - 150mill grounding pad

Input Capacitor
330uF, 35V (only 25V required)
LCSC Part# C134522
https://datasheet.lcsc.com/szlcsc/Leleon-VZH331M1VTR-1010K_C134522.pdf
10x10mm ROHS, Panasonic G

Inductor 3.3uH, 6.5amps
MHC106030-3R3M-R8A - 6.6x7.3mm
LCSC Part# C280586
https://datasheet.lcsc.com/szlcsc/1912111437_Chilisin-Elec-MHC106030-3R3M-R8A_C280586.pdf

output capacitor
CL21A226MAQNNNE
22uF, 6805, 25V, ceramic
https://datasheet.lcsc.com/szlcsc/Samsung-Electro-Mechanics-CL21A226MAQNNNE_C45783.pdf
C45783



Power Logic
Scenario #1 - Testing with the RPI plugged into 5V micro usb
- no 12VDC present
- display is powered, all 5V peripherals powered via RPI

Scenario #2 - out in the field sensinon flow sensors
- 12VDC is only power used
- 12VDC/5DC converter is active, jumper is made and RPI, Display, and all peripherals powered by converter

Scenario #3 - out in the field MAF sensors used
- 12VDC is only powered used
- 12VDC/5DC converter is active, jumper is made and RPI, Display, and peripherals powered by converter

Scenario #4 -