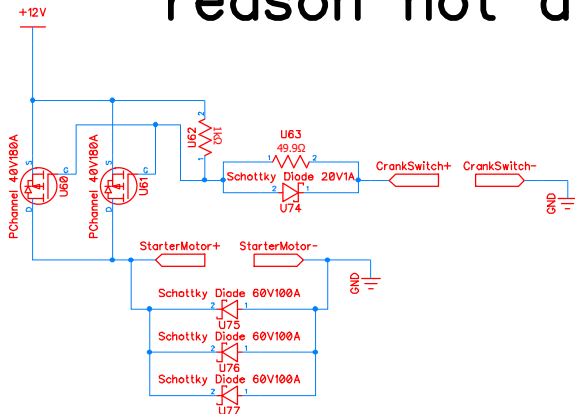ADD LED'S!
reason not done is cos 500 connection limit reached

+12V

PChannel 40V180A   U60

PChannel 40V180A   U61

U62

U63
49.9Ω

Schottky Diode 20V1A
U74

CrankSwitch+   CrankSwitch−

GND

StarterMotor+   StarterMotor−

GND

Schottky Diode 60V100A
U75

Schottky Diode 60V100A
U76

Schottky Diode 60V100A
U77

ADD LED'S TO REMAINING STAGE
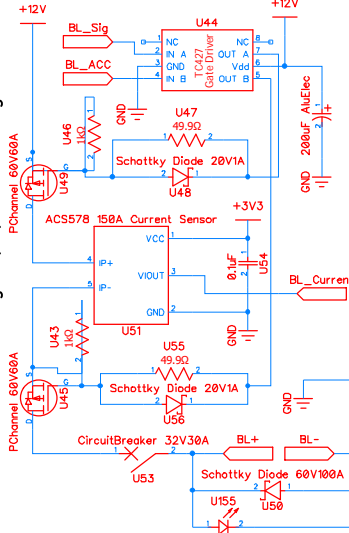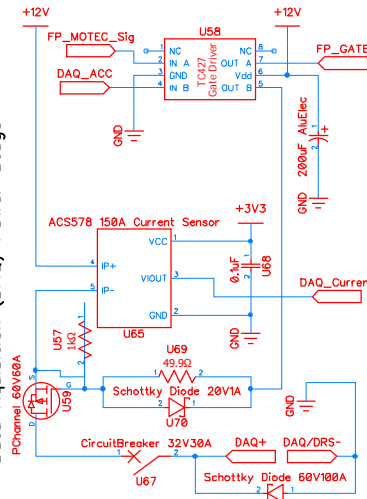reason not done is cos 500 cor
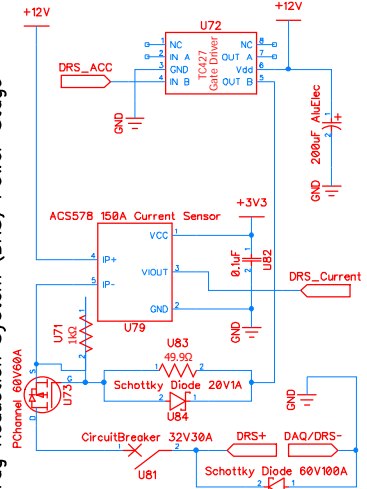
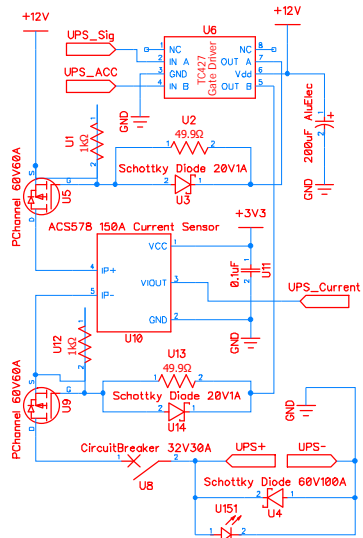Fuel Pump & Ignition Coil (FP&IC) Power Stage
Brake Light (BL) Power Stage
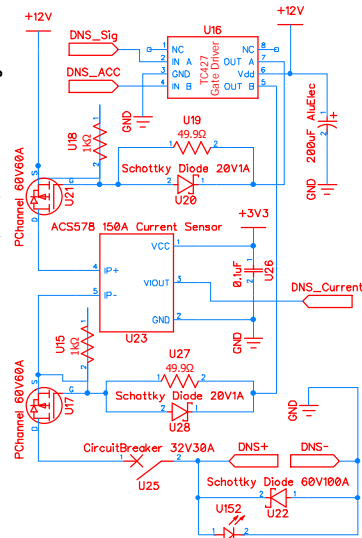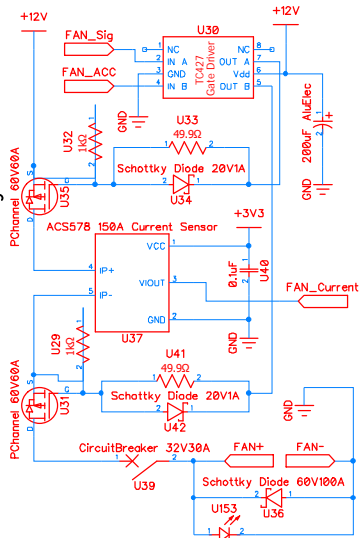Data Aquisition (DAQ) Power Stage
Drag Reduction System (DRS) Power Stage
Upshift Solenoid (UPS) Power Stage
Downshift Solenoid (DNS) Power Stage
FAN Power Stage
Clutch (CLT) Power Stage
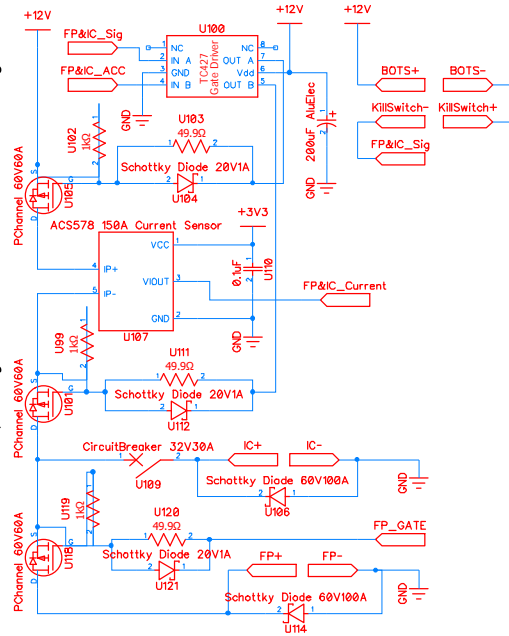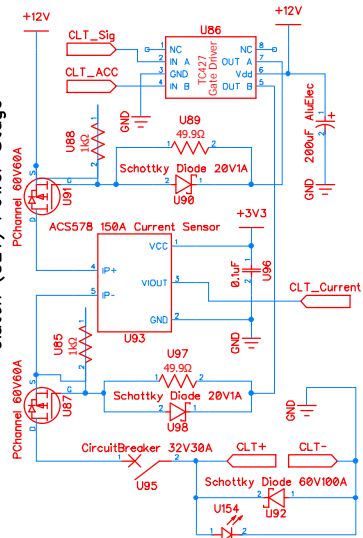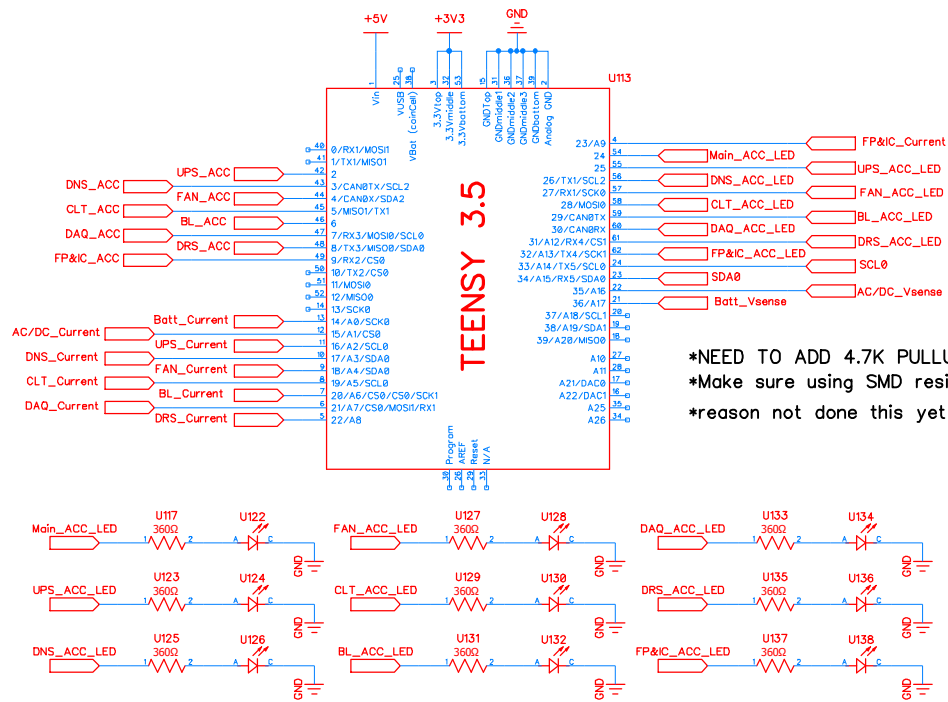
*ACC = active current control

+5V +3V3 GND

U113

TEENSY 3.5

Vin
VUSB
VBat (coinCell)
3.3Vtop
3.3Vmiddle
3.3Vbottom
GNDTop
GNDmiddle1
GNDmiddle2
GNDmiddle3
GNDbottom
Analog GND

0/RX1/MOSI1
1/TX1/MISO1
2
3/CAN0TX/SCL2
4/CAN0X/SDA2
5/MISO1/TX1
6
7/RX3/MOSI0/SCL0
8/TX3/MISO0/SDA0
9/RX2/CS0
10/TX2/CS0
11/MOSI0
12/MISO0
13/SCK0
14/A0/SCK0
15/A1/CS0
16/A2/SCL0
17/A3/SDA0
18/A4/SDA0
19/A5/SCL0
20/A6/CS0/CS0/SCK1
21/A7/CS0/MOSI1/RX1
22/A8

23/A9
24
25
26/TX1/SCL2
27/RX1/SCK0
28/MOSI0
29/CAN0RX
30/CAN0RX
31/A12/RX4/CS1
32/A13/TX4/SCK1
33/A14/TX5/SCL0
34/A15/RX5/SDA0
35/A16
36/A17
37/A18/SCL1
38/A19/SDA1
39/A20/MISO0
A10
A11
A21/DAC0
A22/DAC1
A25
A26

Program
AREF
Reset
N/A

DNS_ACC
UPS_ACC
CLT_ACC
FAN_ACC
DAQ_ACC
BL_ACC
FP&IC_ACC
DRS_ACC

AC/DC_Current
Batt_Current
DNS_Current
UPS_Current
CLT_Current
FAN_Current
DAQ_Current
BL_Current
DRS_Current

FP&IC_Current
Main_ACC_LED   UPS_ACC_LED
DNS_ACC_LED   FAN_ACC_LED
CLT_ACC_LED   BL_ACC_LED
DAQ_ACC_LED   DRS_ACC_LED
FP&IC_ACC_LED   SCL0
SDA0   AC/DC_Vsense
Batt_Vsense

*NEED TO ADD 4.7K PULLUPS TO SDA0 and SCL0
*Make sure using SMD resistor

*reason not done this yet is cos reached software limit of 500 connections

Main_ACC_LED   U117 360Ω   U122
UPS_ACC_LED   U123 360Ω   U124
DNS_ACC_LED   U125 360Ω   U126
FAN_ACC_LED   U127 360Ω   U128
CLT_ACC_LED   U129 360Ω   U130
BL_ACC_LED   U131 360Ω   U132
DAQ_ACC_LED   U133 360Ω   U134
DRS_ACC_LED   U135 360Ω   U136
FP&IC_ACC_LED U137 360Ω   U138

GND