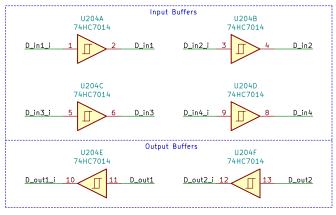
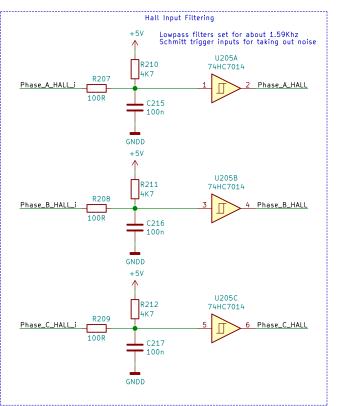
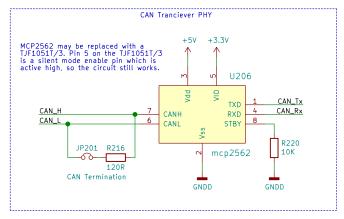


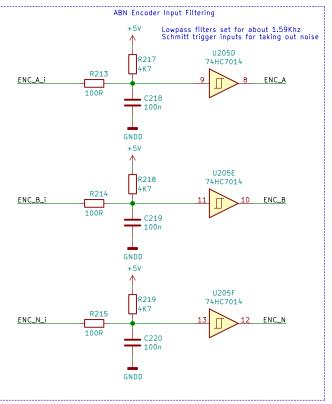
D\_GND**□** 

GNDD









USB\_D+ OUSB\_D+

USB\_D- OUSB\_D
CAN\_RX OCAN\_RX
CAN\_IX OCAN\_TX

Throttle DThrottle
Motor\_Temp DMotorTemp

Transistor\_Temp DTransistorTemp

A\_in1 DA\_In1
A\_in2 DA\_In2
D\_in3 DD\_In1
D\_in2 DD\_In1
D\_in2 DD\_In3
D\_in4 DD\_In4

A\_out1 D\_out1 D\_out1
D\_out1 D\_out1 D\_out2 D\_out1
D\_out2 DD\_out2
D\_out1 DPhase\_A\_HAL
Phase\_B\_HALL DPhase\_B\_HAL
Phase\_C\_HALL DPhase\_C\_HAL

ENC\_A\_DENC\_A
ENC\_B\_DENC\_B
ENC\_N\_DENC\_N

This sheet contains input/output proteciton and conditioning circuitry. Note that the stm32 USB lines pass through this sheet without modification.

Samuel Ellicott
Senior Design 2018–2019
Supermileage Motor Controller
Cedarville University
Sheet: /IO Protection/
File: IO.sch

Title: Input Protection and Filtering
Size: USLedger Date: 2018–11–28 Rev: 1.0
KiCad E.D.A. kicad (5.0.0) Id: 2/4

