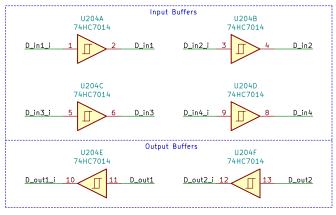
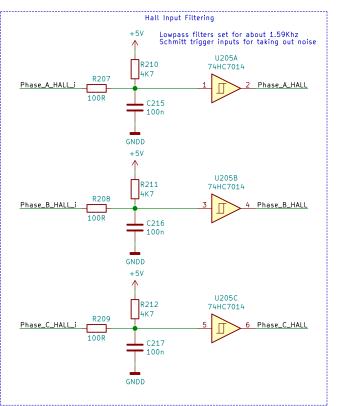
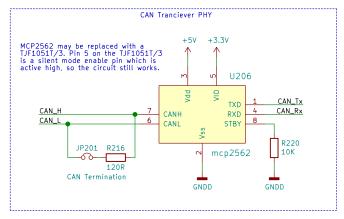


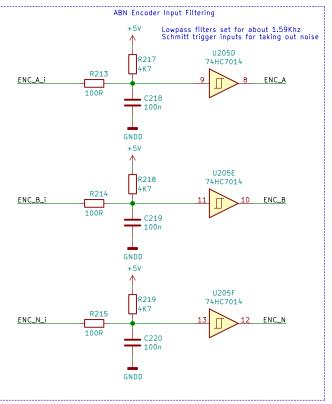
D_GND**□**

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

