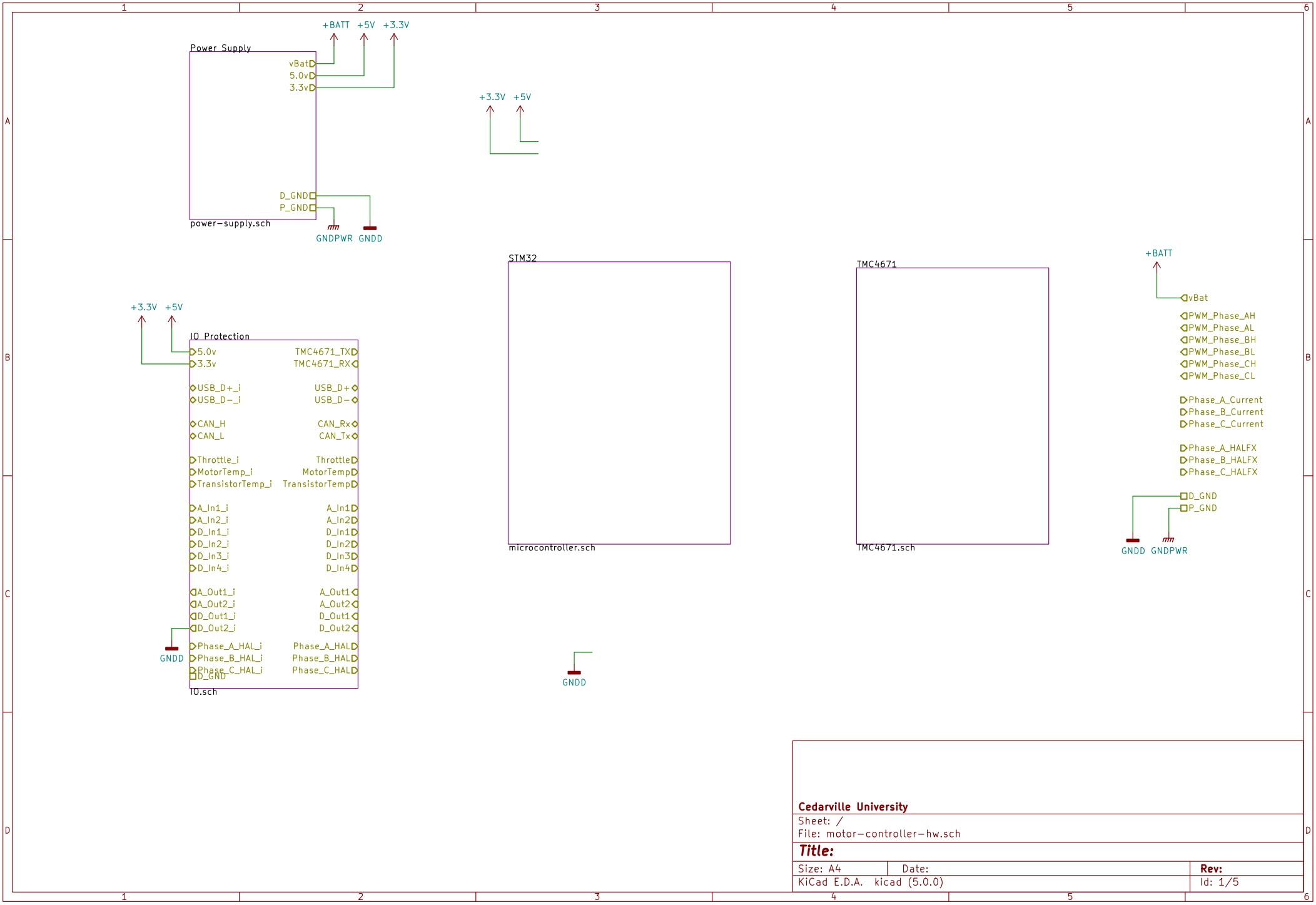
Power Supply
+BATT
+5V
+3.3V
vBat
5.0v
3.3v
D_GND
P_GND
power-supply.sch
GNDPWR
GNDD
+3.3V
+5V
STM32
microcontroller.sch
TMC4671
TMC4671.sch
+BATT
vBat
PWM_Phase_AH
PWM_Phase_AL
PWM_Phase_BH
PWM_Phase_BL
PWM_Phase_CH
PWM_Phase_CL
Phase_A_Current
Phase_B_Current
Phase_C_Current
Phase_A_HALFX
Phase_B_HALFX
Phase_C_HALFX
D_GND
P_GND
GNDD
GNDPWR
+3.3V
+5V
IO Protection
5.0v
3.3v
USB_D+_i
USB_D-_i
CAN_H
CAN_L
Throttle_i
MotorTemp_i
TransistorTemp_i
A_In1_i
A_In2_i
D_In1_i
D_In2_i
D_In3_i
D_In4_i
A_Out1_i
A_Out2_i
D_Out1_i
D_Out2_i
Phase_A_HAL_i
Phase_B_HAL_i
Phase_C_HAL_i
D_GND
TMC4671_TX
TMC4671_RX
USB_D+
USB_D-
CAN_Rx
CAN_Tx
Throttle
MotorTemp
TransistorTemp
A_In1
A_In2
D_In1
D_In2
D_In3
D_In4
A_Out1
A_Out2
D_Out1
D_Out2
Phase_A_HAL
Phase_B_HAL
Phase_C_HAL
GNDD
IO.sch
GNDD
Cedarville University
Sheet: /
File: motor-controller-hw.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (5.0.0)
Id: 1/5