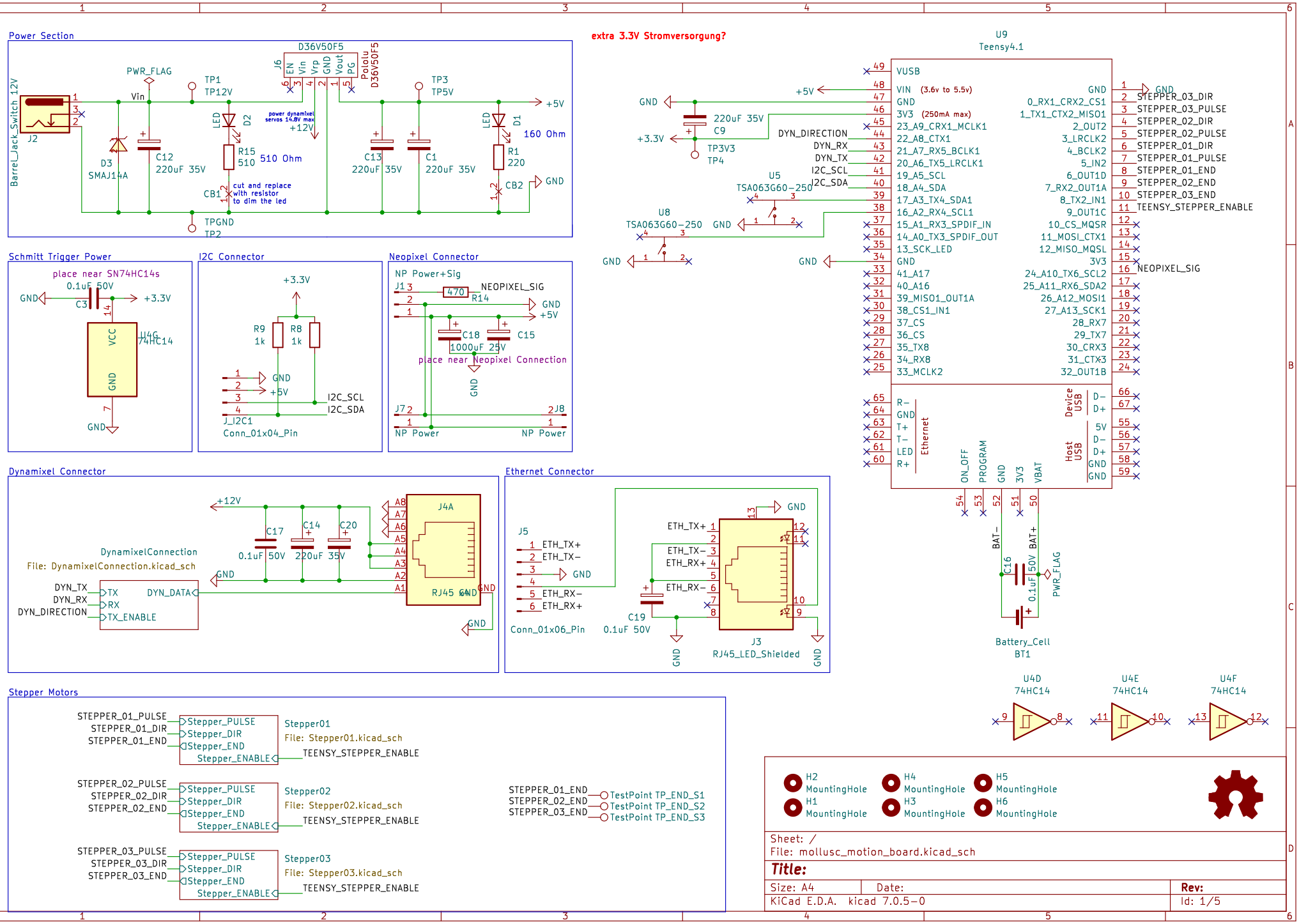
Power Section
Barrel_Jack_Switch 12V
J2
PWR_FLAG
Vin
TP1
TP12V
D3
SMAJ14A
C12
220uF 35V
LED
D2
R15
510 510 Ohm
CB1
cut and replace with resistor to dim the led
D36V50F5
J6
EN
Vin
Vrp
GND
Vout
PG
Pololu D36V50F5
power dynamixel servos 14.8V max
+12V
TP3
TP5V
C13
220uF 35V
C1
220uF 35V
LED
D1
160 Ohm
R1
220
CB2
+5V
GND
TPGND
TP2
Schmitt Trigger Power
place near SN74HC14s
0.1uF 50V
GND
C3
+3.3V
U4G
74HC14
VCC
GND
I2C Connector
+3.3V
R9
1k
R8
1k
GND
+5V
I2C_SCL
I2C_SDA
J_I2C1
Conn_01x04_Pin
Neopixel Connector
NP Power+Sig
J1
470
R14
NEOPIXEL_SIG
GND
+5V
C18
1000uF 25V
C15
place near Neopixel Connection
J7
J8
NP Power
NP Power
Dynamixel Connector
+12V
C17
0.1uF 50V
C14
220uF 35V
C20
J4A
RJ45
DynamixelConnection
File: DynamixelConnection.kicad_sch
DYN_TX
DYN_RX
DYN_DIRECTION
TX
RX
TX_ENABLE
DYN_DATA
Ethernet Connector
J5
ETH_TX+
ETH_TX−
ETH_RX+
ETH_RX−
Conn_01x06_Pin
C19
0.1uF 50V
J3
RJ45_LED_Shielded
extra 3.3V Stromversorgung?
U9
Teensy4.1
VUSB
VIN (3.6v to 5.5v)
3V3 (250mA max)
220uF 35V
C9
TP3V3
TP4
DYN_DIRECTION
DYN_RX
DYN_TX
I2C_SCL
I2C_SDA
U5
TSA063G60-250
U8
TSA063G60-250
NEOPIXEL_SIG
TEENSY_STEPPER_ENABLE
Ethernet
Device USB
Host USB
ON_OFF
PROGRAM
3V3
VBAT
BAT−
BAT+
C16
0.1uF 50V
PWR_FLAG
Battery_Cell
BT1
U4D
74HC14
U4E
74HC14
U4F
74HC14
Stepper Motors
STEPPER_01_PULSE
STEPPER_01_DIR
STEPPER_01_END
Stepper_PULSE
Stepper_DIR
Stepper_END
Stepper_ENABLE
Stepper01
File: Stepper01.kicad_sch
TEENSY_STEPPER_ENABLE
STEPPER_02_PULSE
STEPPER_02_DIR
STEPPER_02_END
Stepper02
File: Stepper02.kicad_sch
STEPPER_03_PULSE
STEPPER_03_DIR
STEPPER_03_END
Stepper03
File: Stepper03.kicad_sch
TestPoint TP_END_S1
TestPoint TP_END_S2
TestPoint TP_END_S3
H2 MountingHole
H1 MountingHole
H4 MountingHole
H3 MountingHole
H5 MountingHole
H6 MountingHole
Sheet: /
File: mollusc_motion_board.kicad_sch
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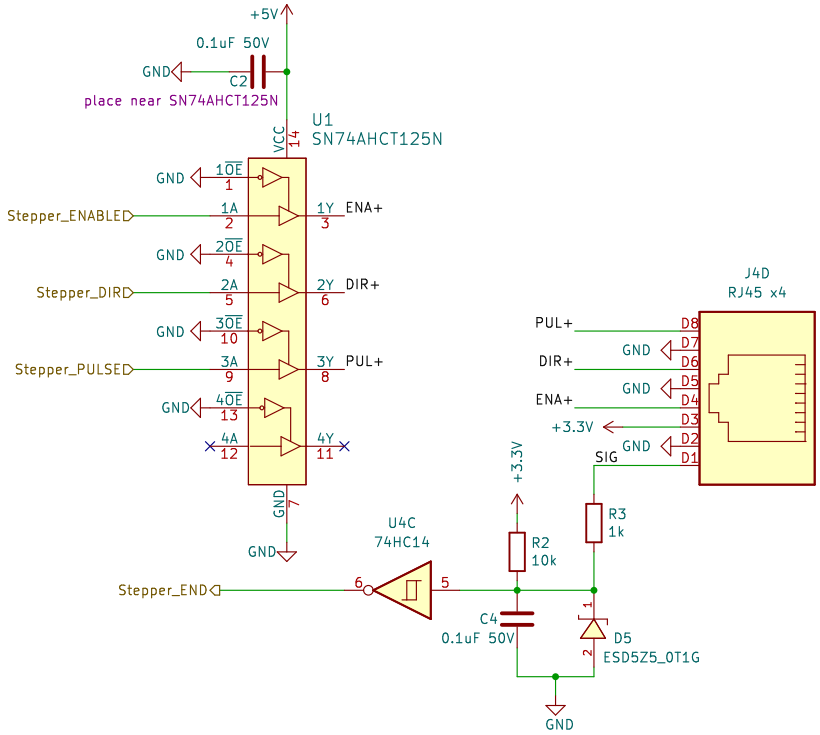
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.5−0
Id: 1/5

STEPPER_MOTOR_CONNECTION_1



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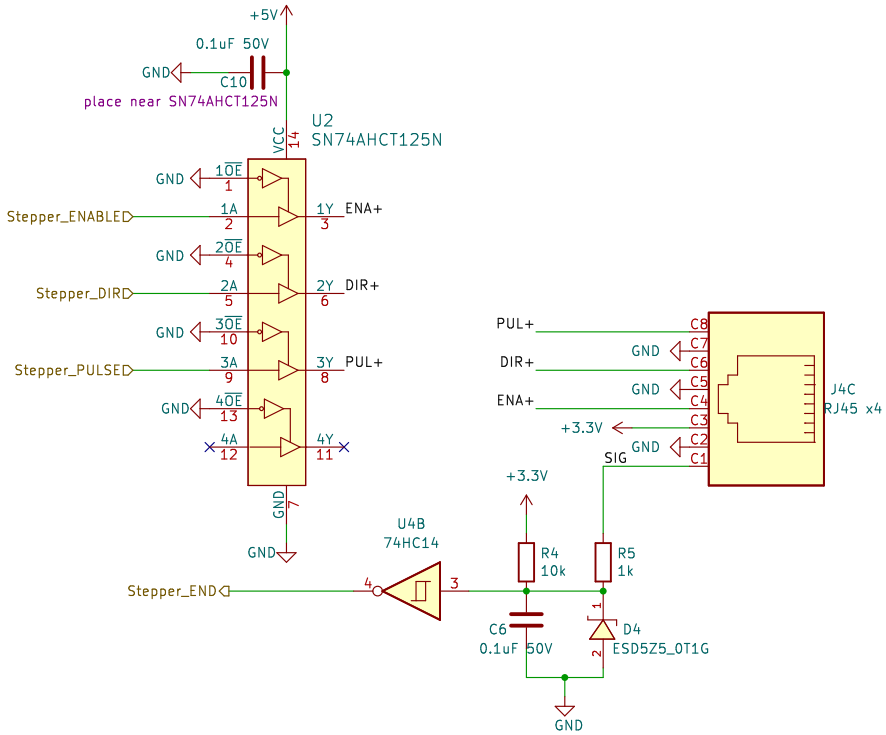
KiCad E.D.A. kicad 7.0.5-0		Id: 2/5

STEPPER_MOTOR_CONNECTION_2



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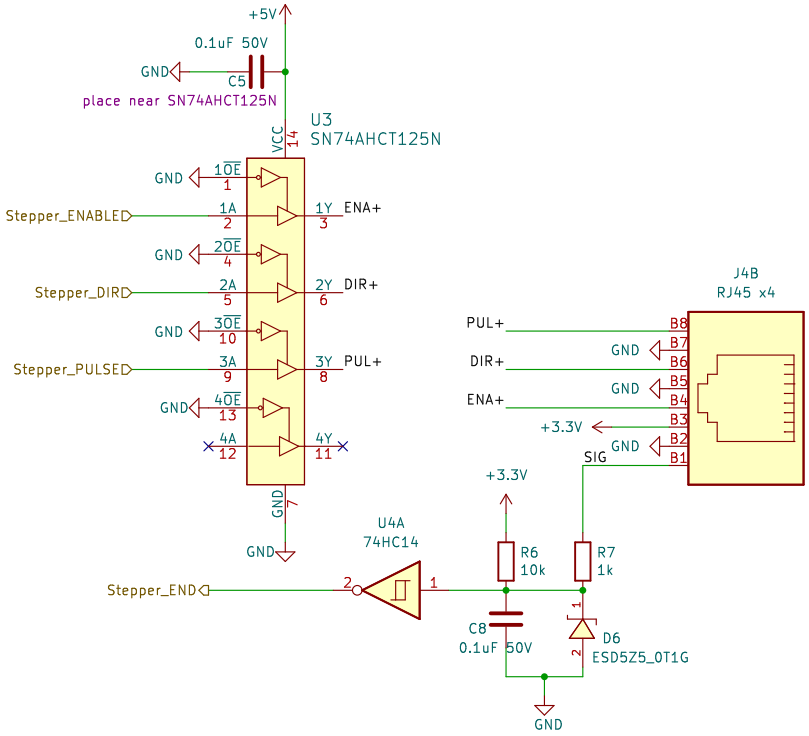
STEPPER_MOTOR_CONNECTION_3



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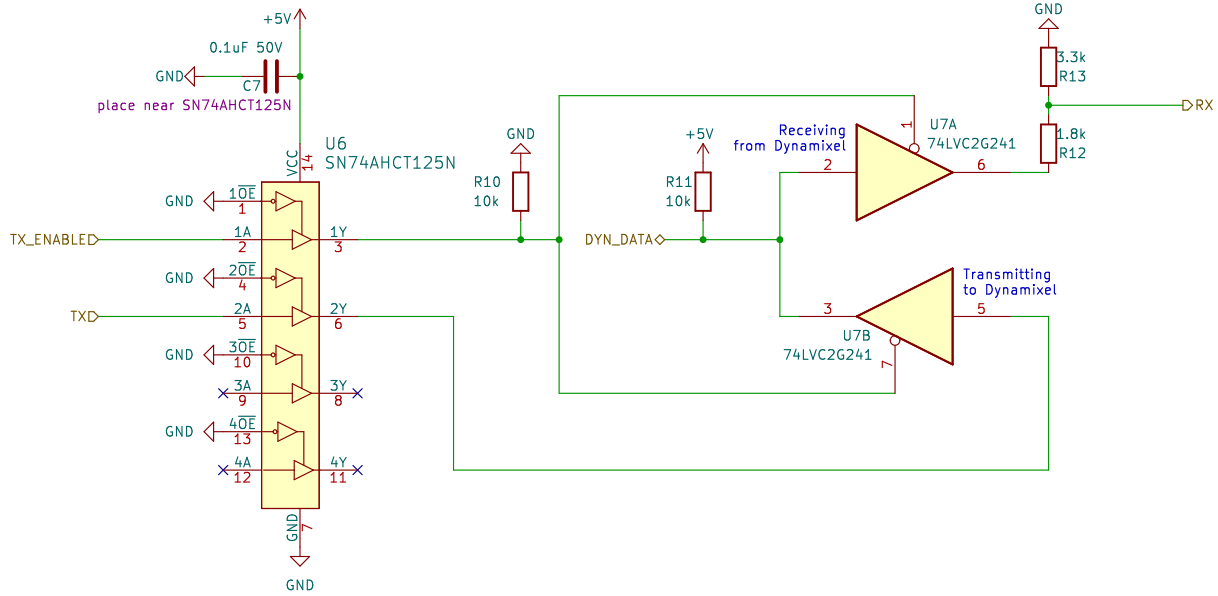

Sheet: /DynamixelConnection/
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Title:

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