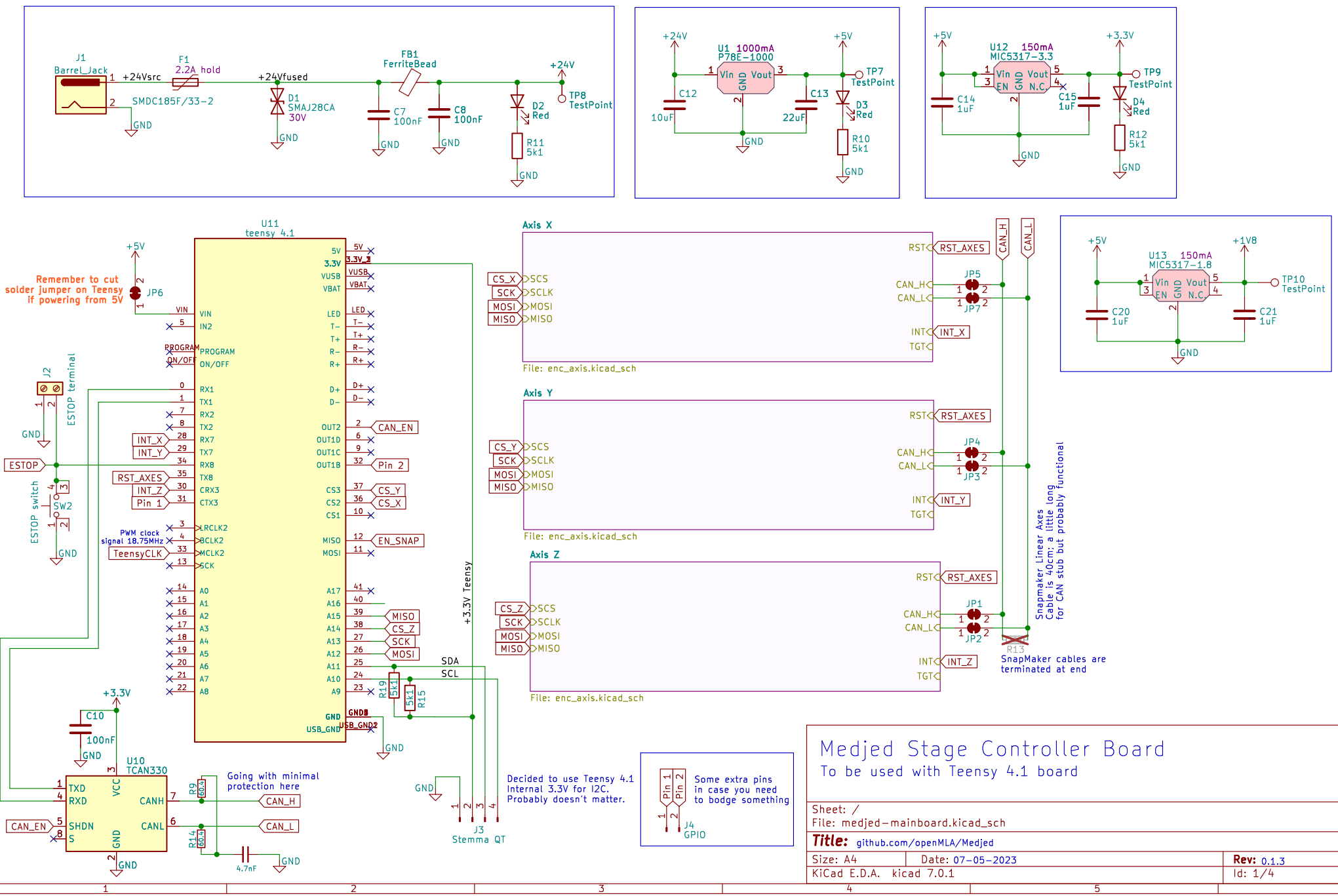
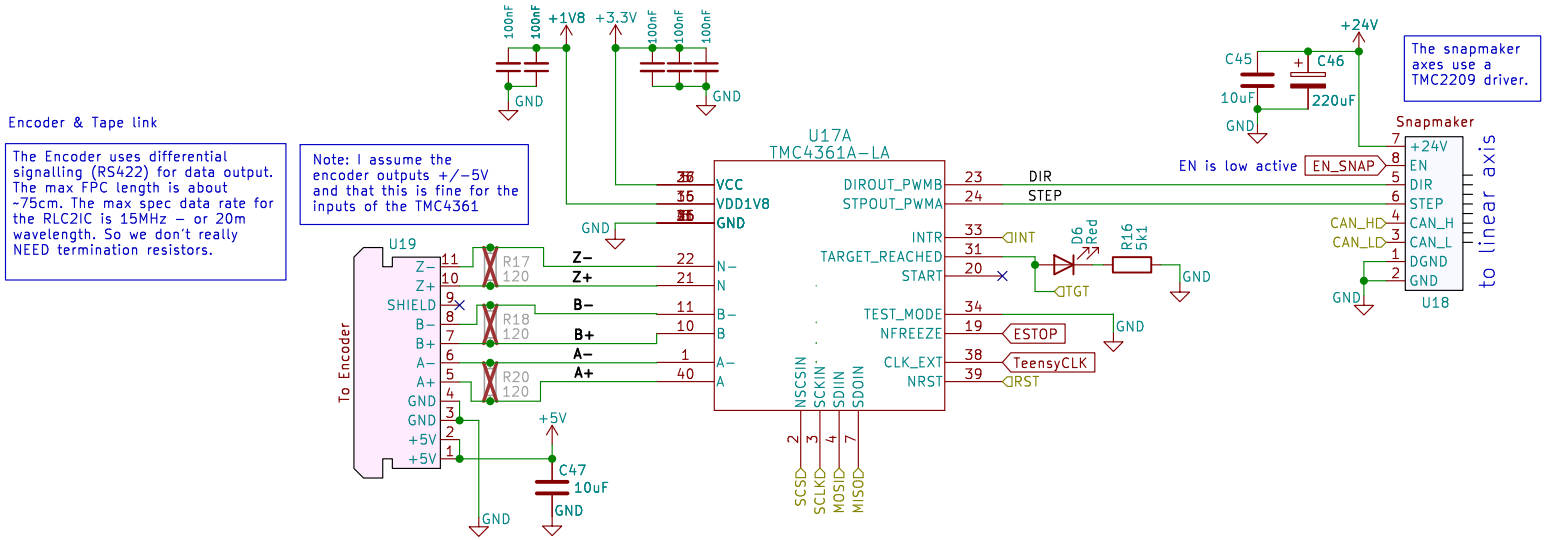
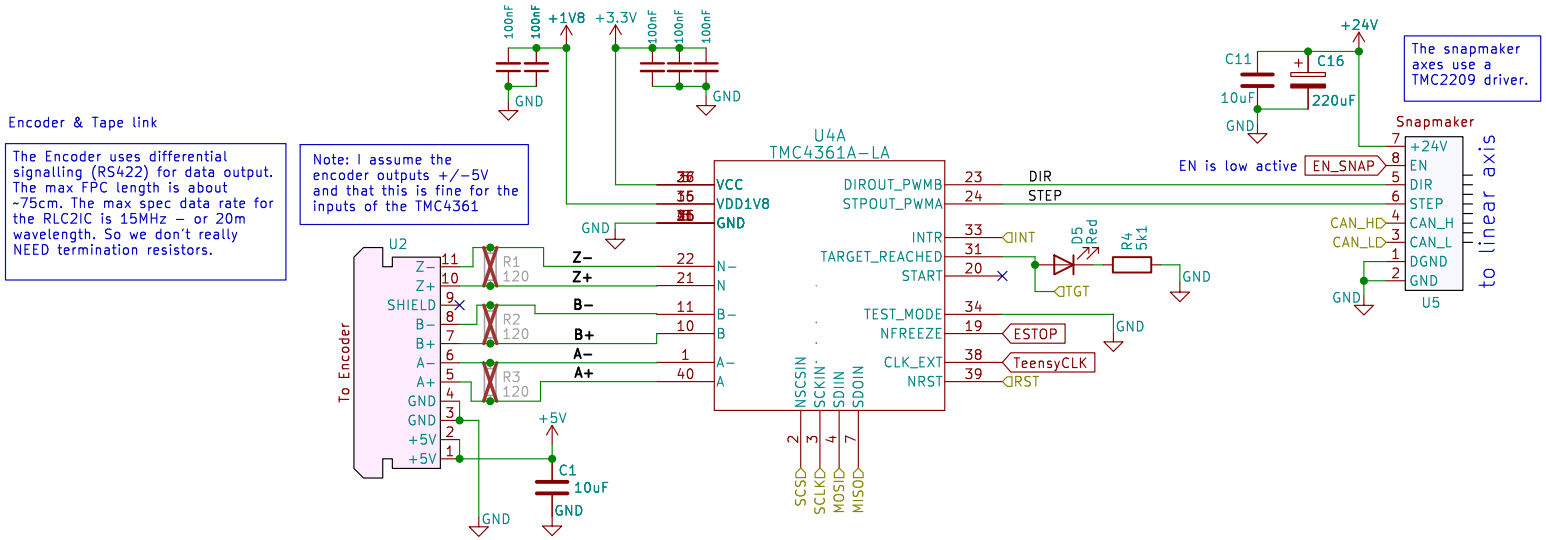
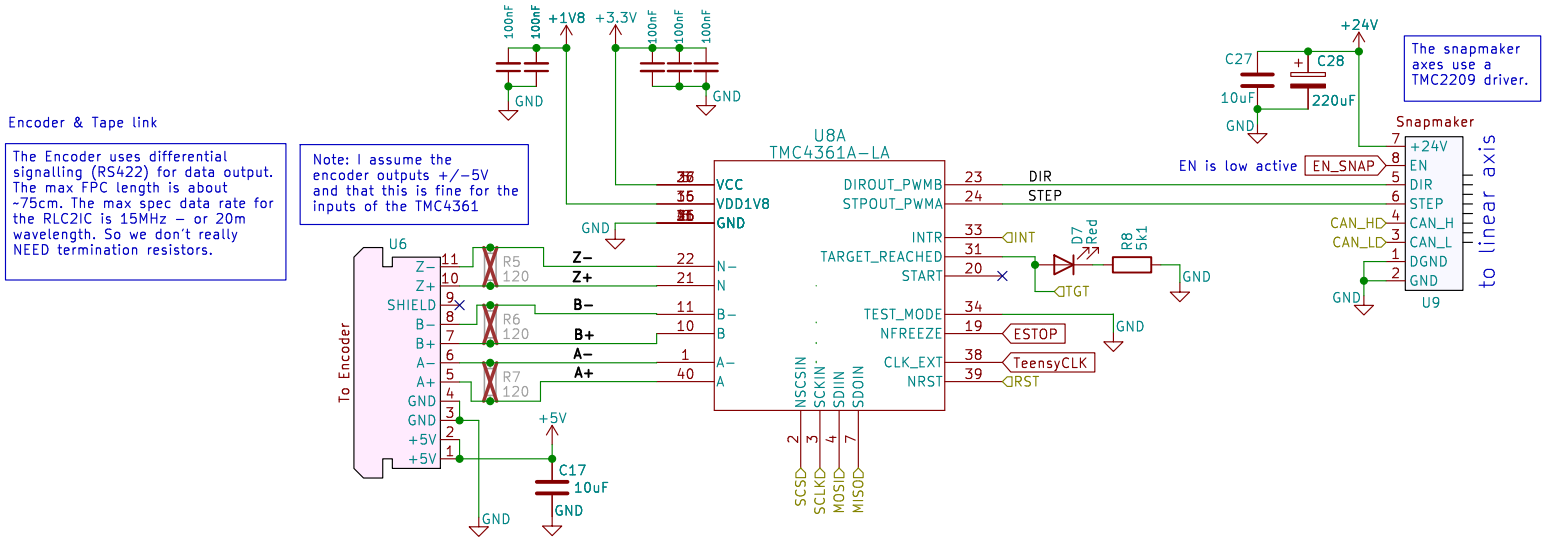

J1
Barrel_Jack
+24Vsrc
F1
2.2A hold
+24Vfused
FB1
FerriteBead
+24V
TP8
TestPoint
SMDC185F/33-2
GND
D1
SMAJ28CA
30V
C7
100nF
C8
100nF
D2
Red
R11
5k1
U1 1000mA
P78E-1000
Vin
GND
Vout
C12
10uF
C13
22uF
+5V
TP7
TestPoint
D3
Red
R10
5k1
U12 150mA
MIC5317-3.3
EN
N.C.
C14
1uF
C15
1uF
+3.3V
TP9
TestPoint
D4
Red
R12
5k1
U11
teensy 4.1
Remember to cut
solder jumper on Teensy
if powering from 5V
JP6
J2
ESTOP terminal
ESTOP
ESTOP switch
SW2
PWM clock
signal 18.75MHz
TeensyCLK
INT_X
INT_Y
INT_Z
Pin 1
RST_AXES
CAN_EN
Pin 2
EN_SNAP
CS_X
CS_Y
CS_Z
MISO
MOSI
SCK
SDA
SCL
+3.3V Teensy
U10
TCAN330
TXD
RXD
SHDN
S
VCC
CANH
CANL
CAN_H
CAN_L
R9
60.4
R14
60.4
4.7nF
C10
100nF
R19
5k1
R15
5k1
J3
Stemma QT
Going with minimal
protection here
Decided to use Teensy 4.1
Internal 3.3V for I2C.
Probably doesn't matter.
Axis X
Axis Y
Axis Z
SCS
SCLK
MOSI
MISO
RST
INT
TGT
JP5
JP7
JP4
JP3
JP1
JP2
R13
CAN_H
CAN_L
File: enc_axis.kicad_sch
Snapmaker Linear Axes
Cable is 40cm; a little long
for CAN stub but probably functional
SnapMaker cables are
terminated at end
U13 150mA
MIC5317-1.8
+1V8
TP10
TestPoint
C20
1uF
C21
1uF
Pin 1
Pin 2
J4
GPIO
Some extra pins
in case you need
to bodge something
Medjed Stage Controller Board
To be used with Teensy 4.1 board
Sheet: /
File: medjed-mainboard.kicad_sch
Title: github.com/openMLA/Medjed
Size: A4
Date: 07-05-2023
Rev: 0.1.3
KiCad E.D.A. kicad 7.0.1
Id: 1/4



Sheet: /Axis X/		
File: enc_axis.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.1		Id: 2/4



Sheet: /Axis Y/		
File: enc_axis.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.1		Id: 3/4



Sheet: /Axis Z/		
File: enc_axis.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.1		Id: 4/4