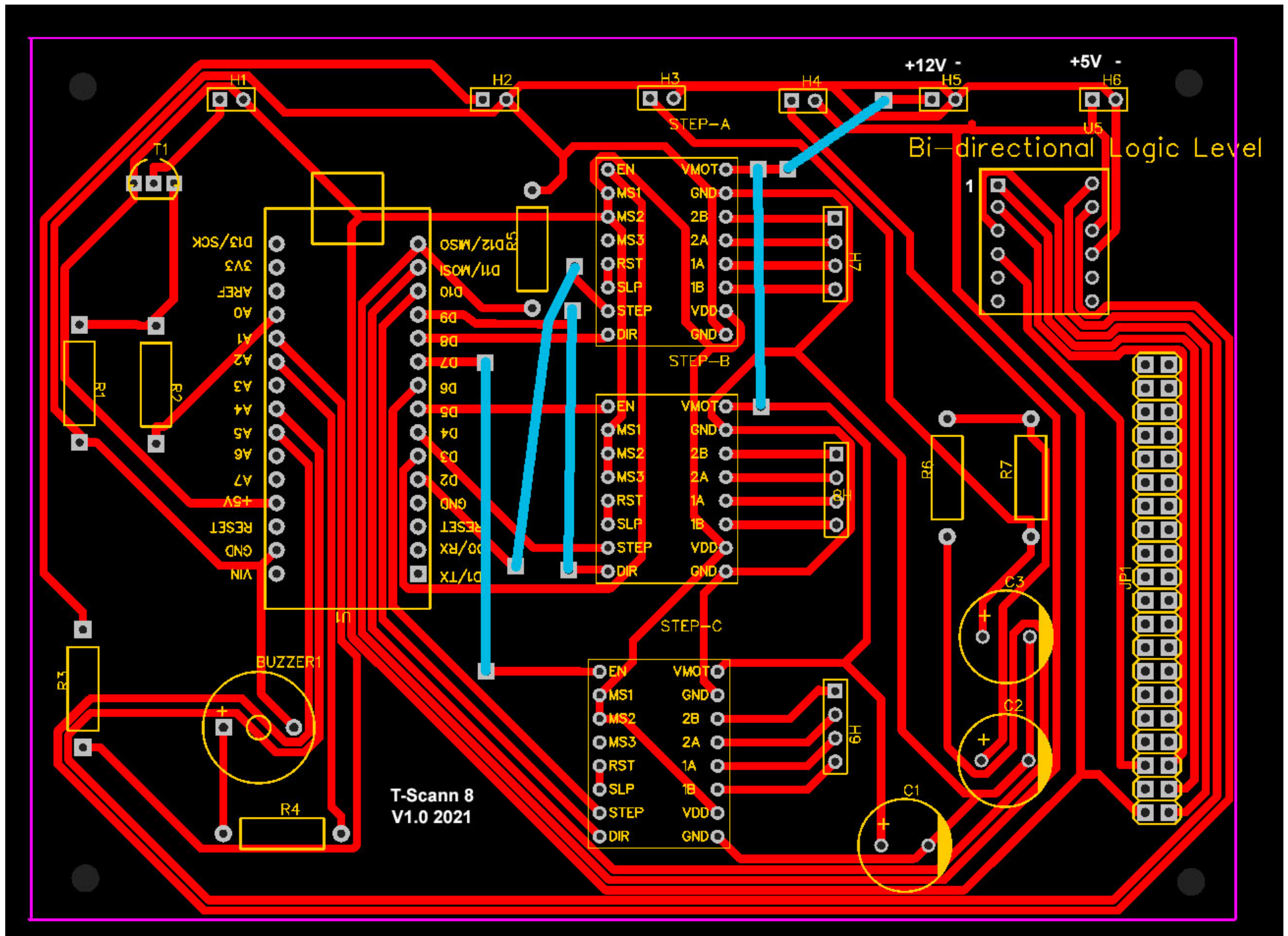
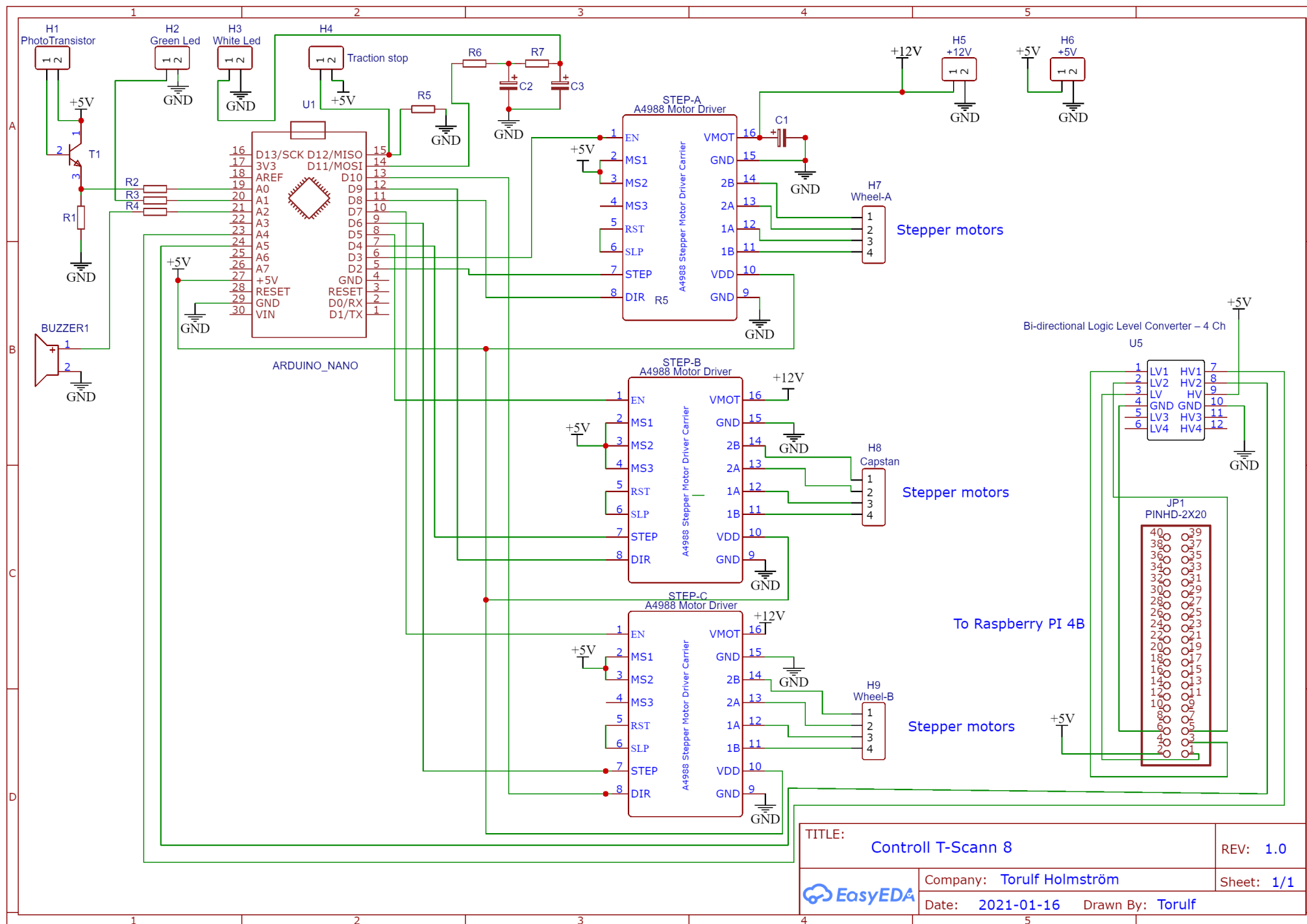


Blue lines are jumpers on the card / Component side of the card





1st Arduino Nano 32KB

Step-A to C

3 pieces A4988 Motor Driver

1st Bi-directional Logic Level Converter – 4 Ch

T1 BC548B

R1 2.2K

R2 820 ohm

R3 330 ohm

R4 330 ohm

R5 10K

R6 330 ohm

R7 220 ohm

C1 100uF / 16v

C2 6,8uf / 16v

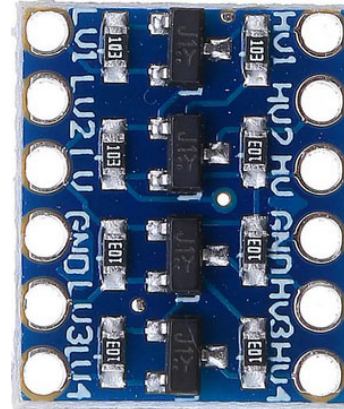
C3 22uf / 16v

H1 - 6 pin strip 2.54mm (cut with cutters)

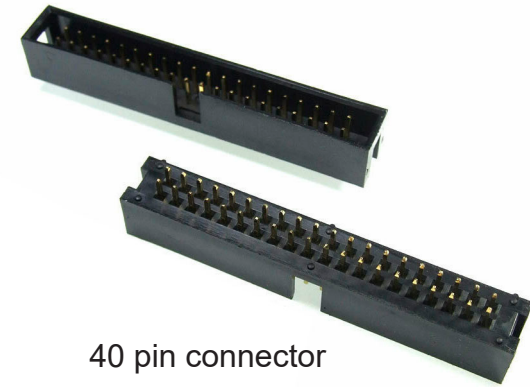
JP1 40 pin connector raspberry pi +
or Header Connector 2.54 mm ISP Male JTAG 40pin (2x20)

Logic Level Converter

pin 1

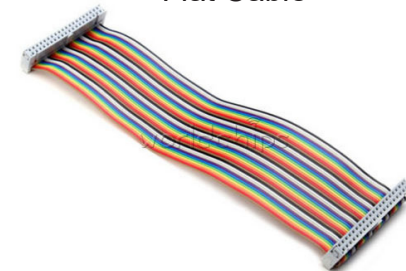


pin strip 2.54mm



40 pin connector

Flat Cable



Components to connect to the card

3 pieces Nema 17 stepper motors with 5 mm shaft and facade

1 pieces LED White 5mm ultra bright (3000 -10000) can be used well from a cheap flashlight

1 pieces Phototransistor WP7113P3C (5mm)

1 pieces Led Green

1 pieces XL 4005 DC- DC Module regulator

1 pieces Raspberry PI 4B

1 pieces Flat Cable for Raspberry Pi 40Pin short

1 pieces Raspberry Pi Camera V2