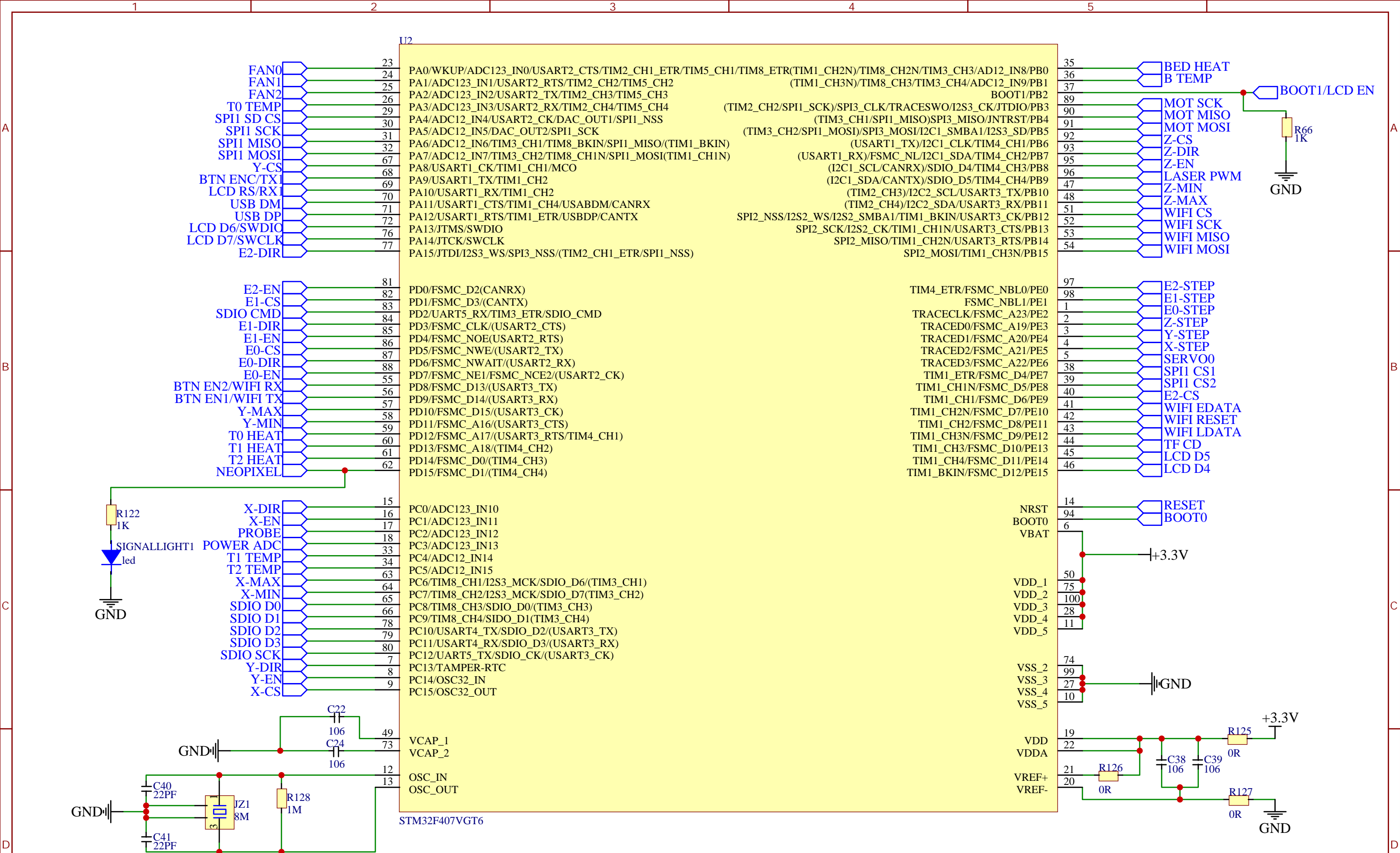
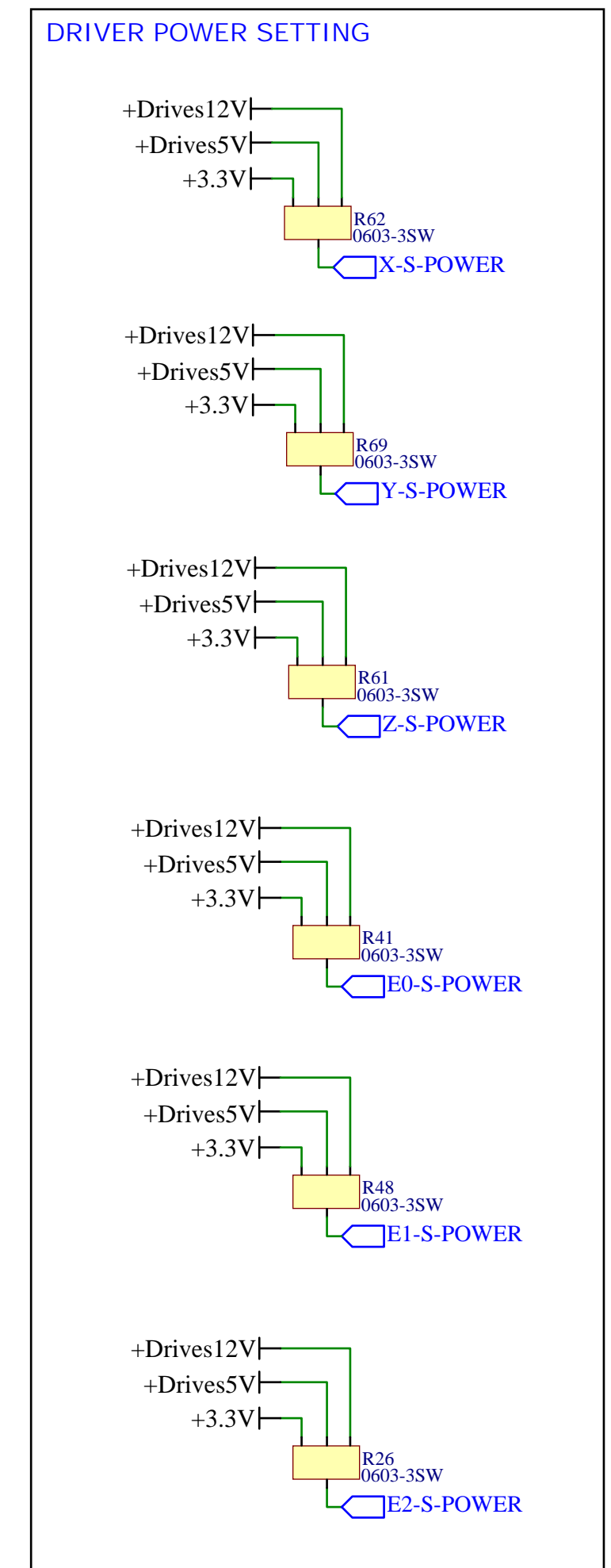
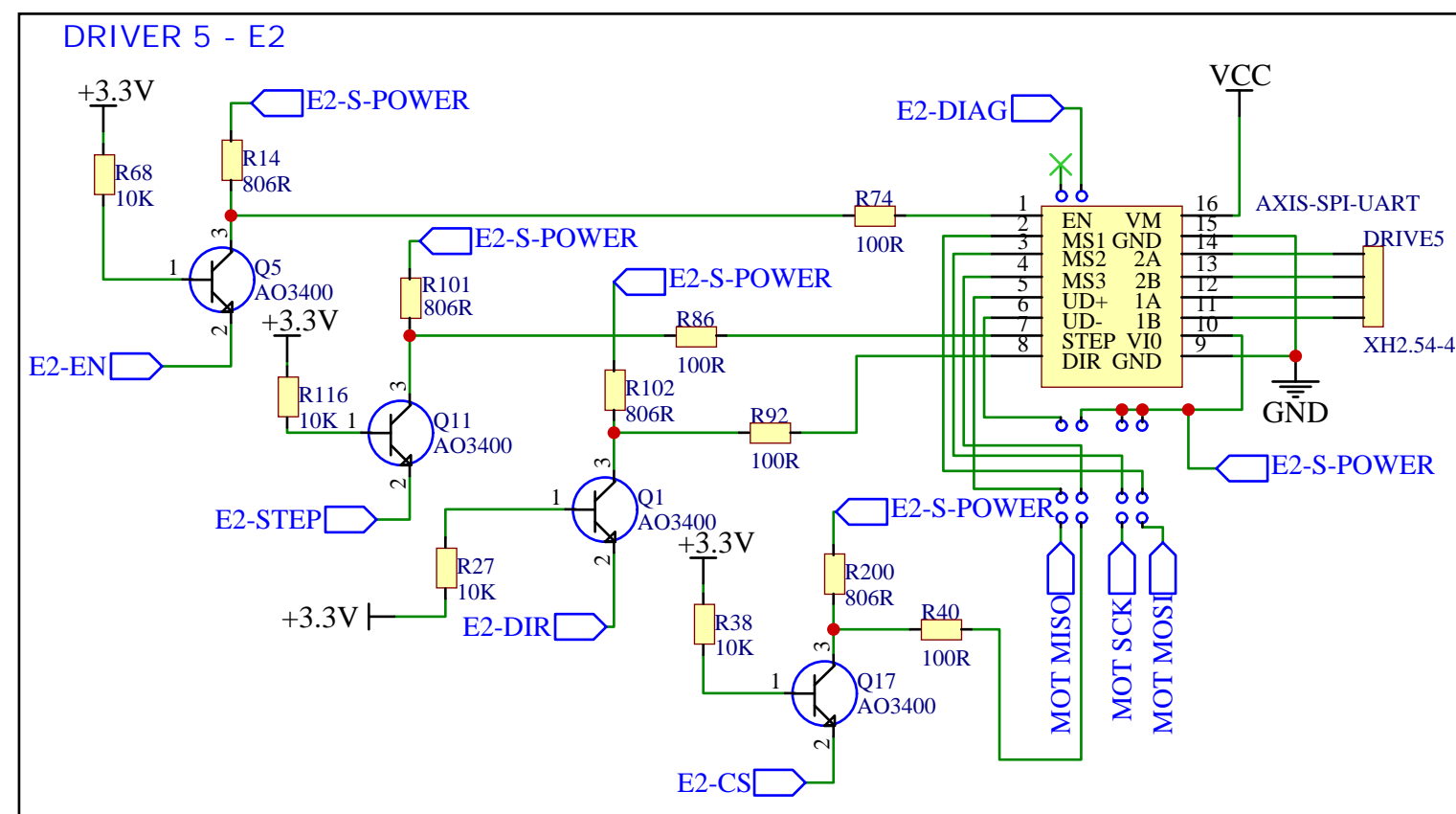
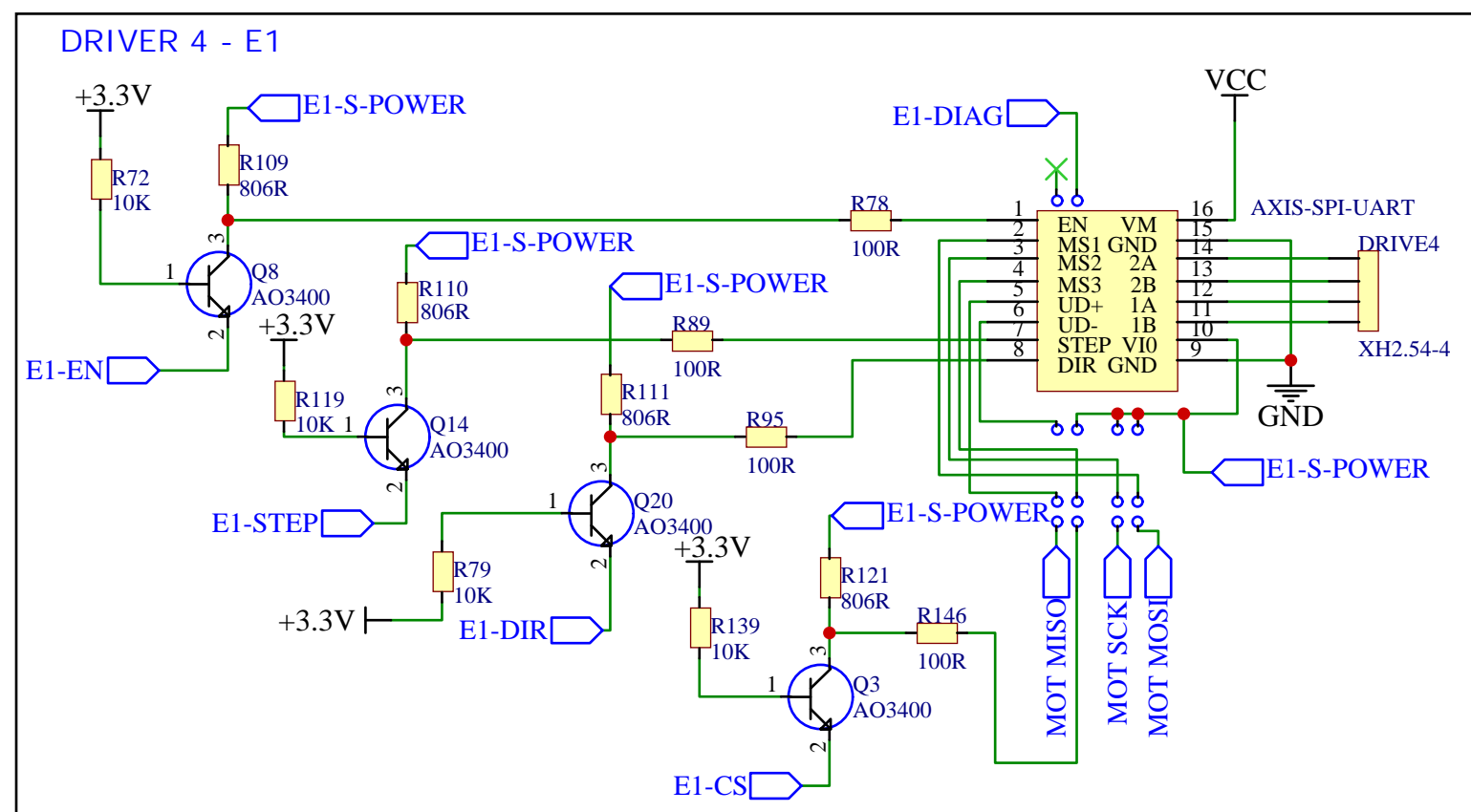
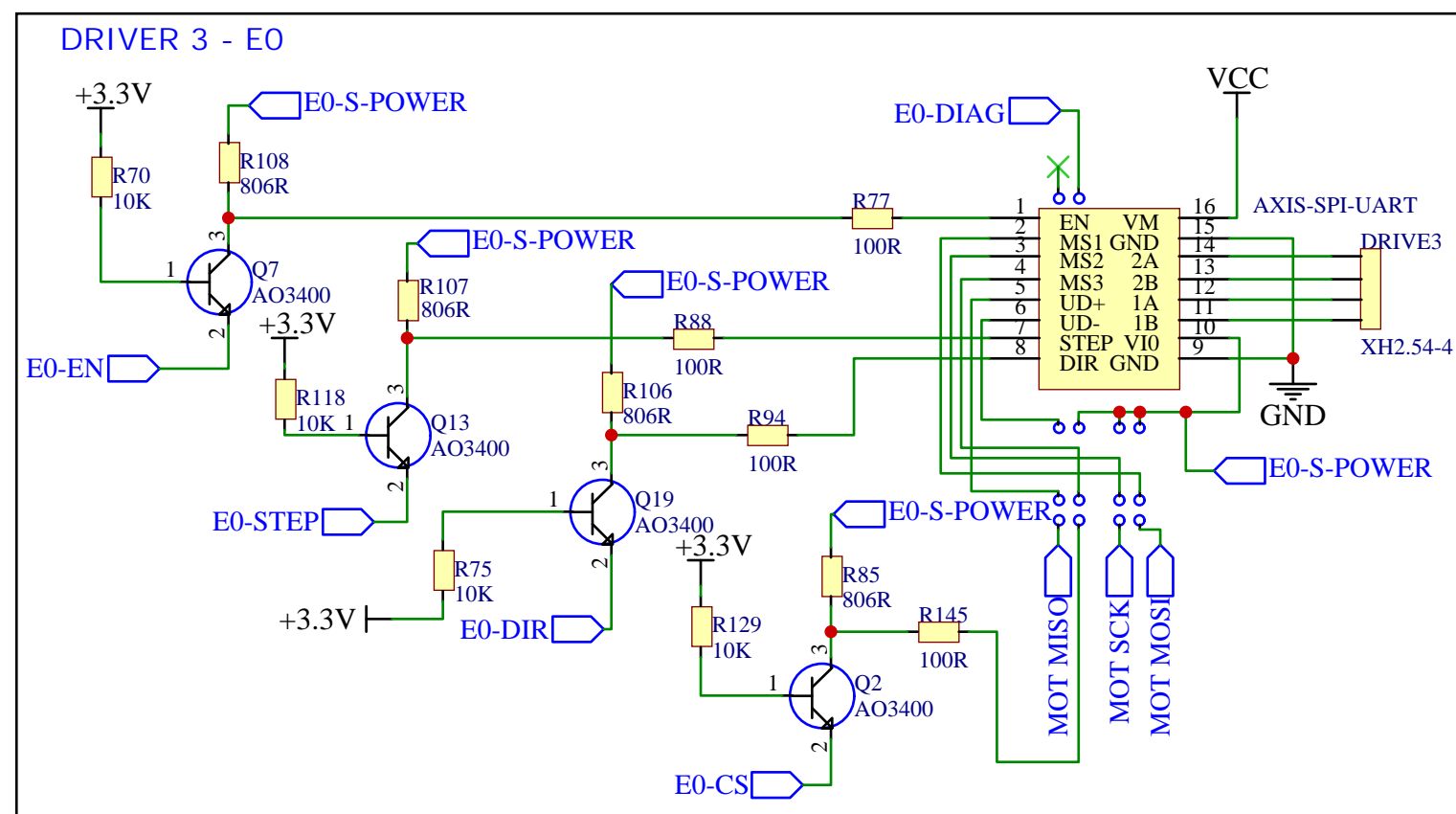
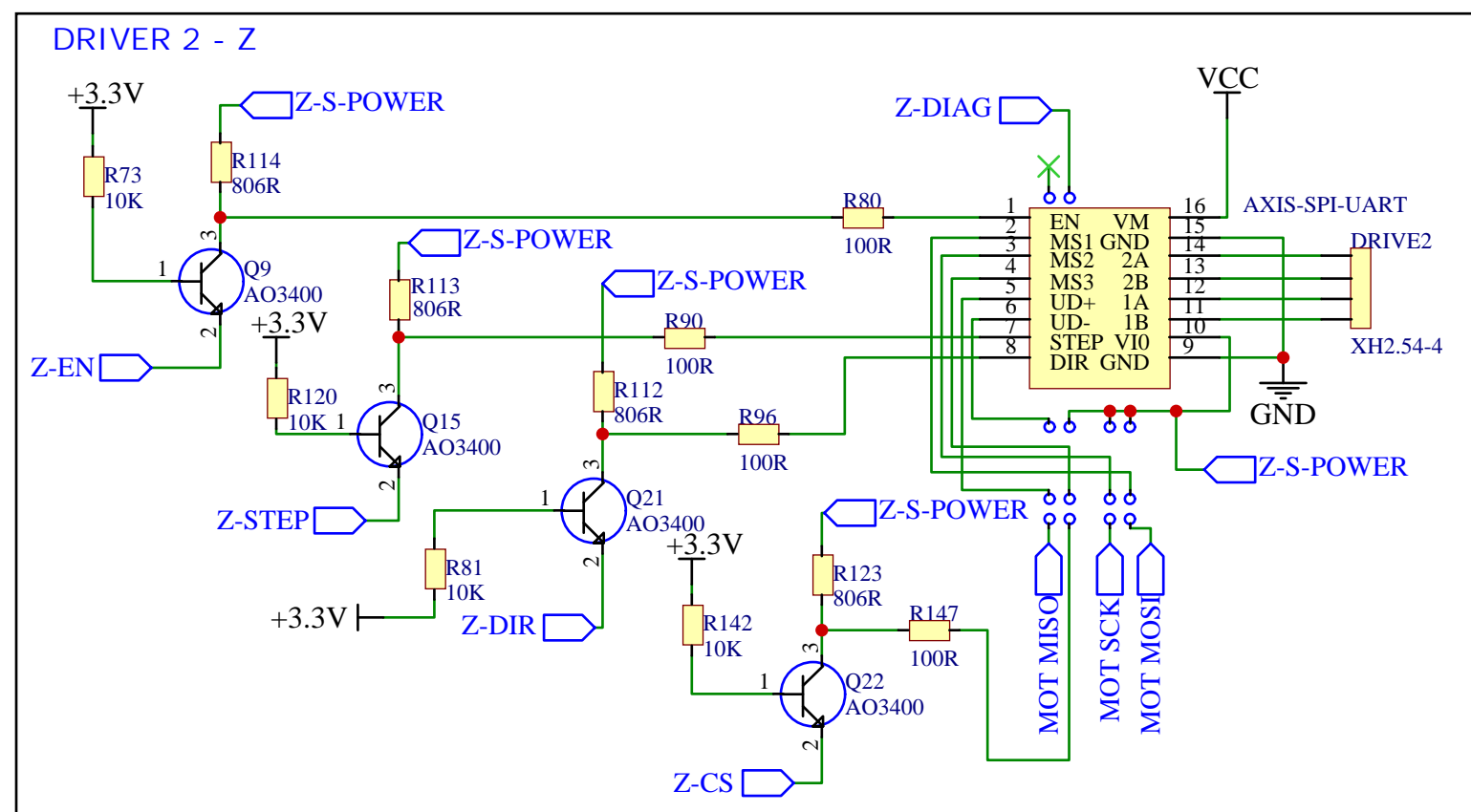
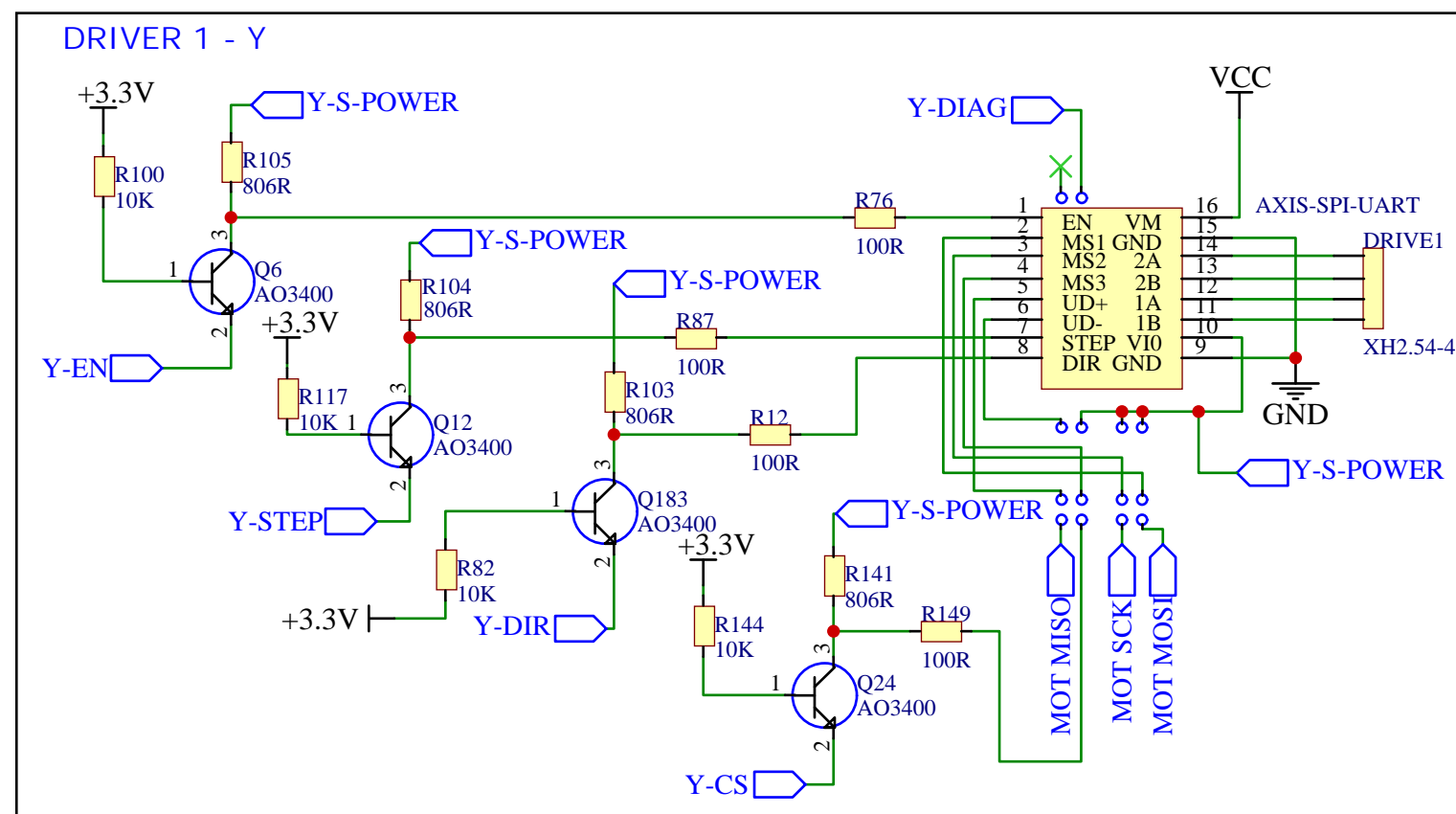
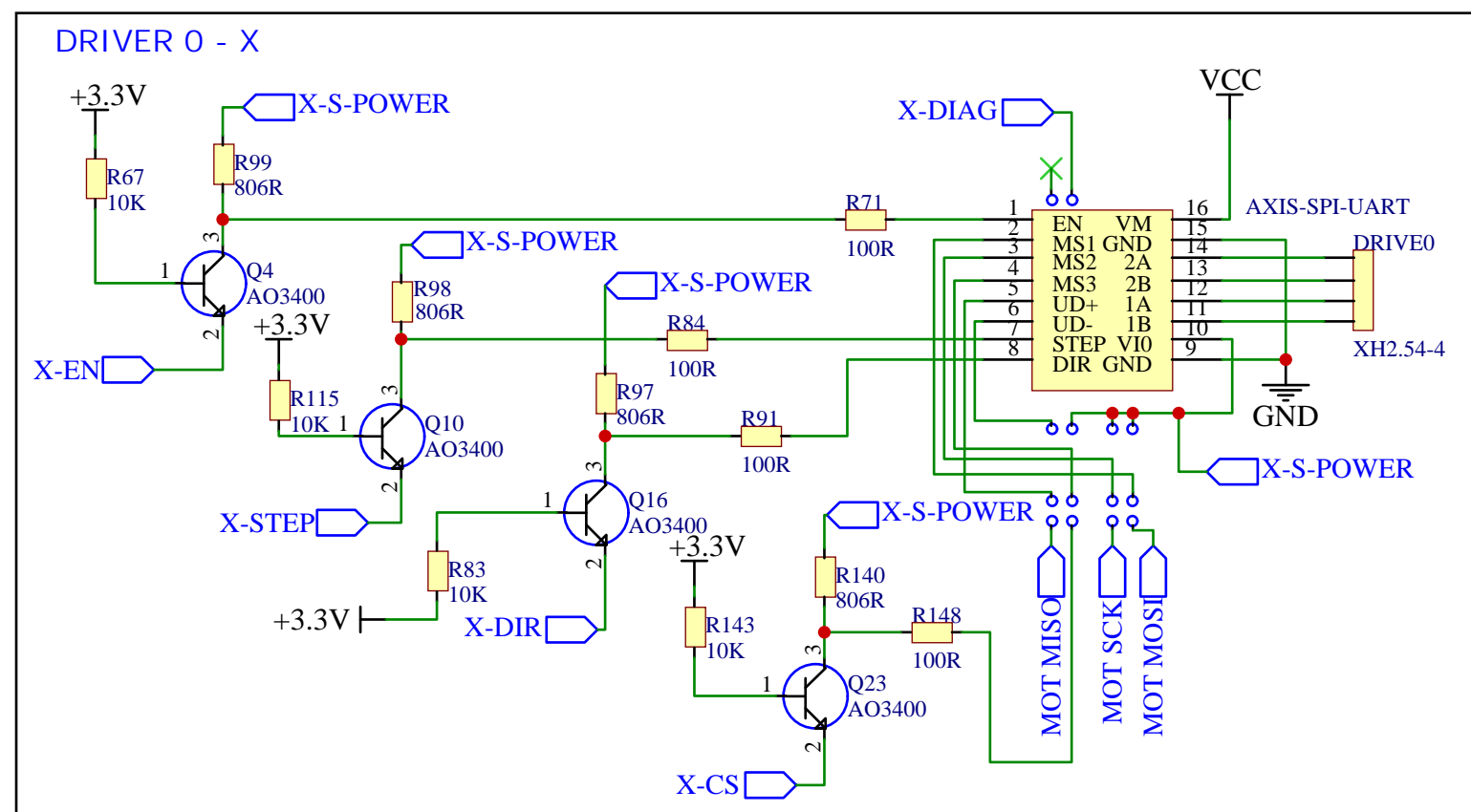
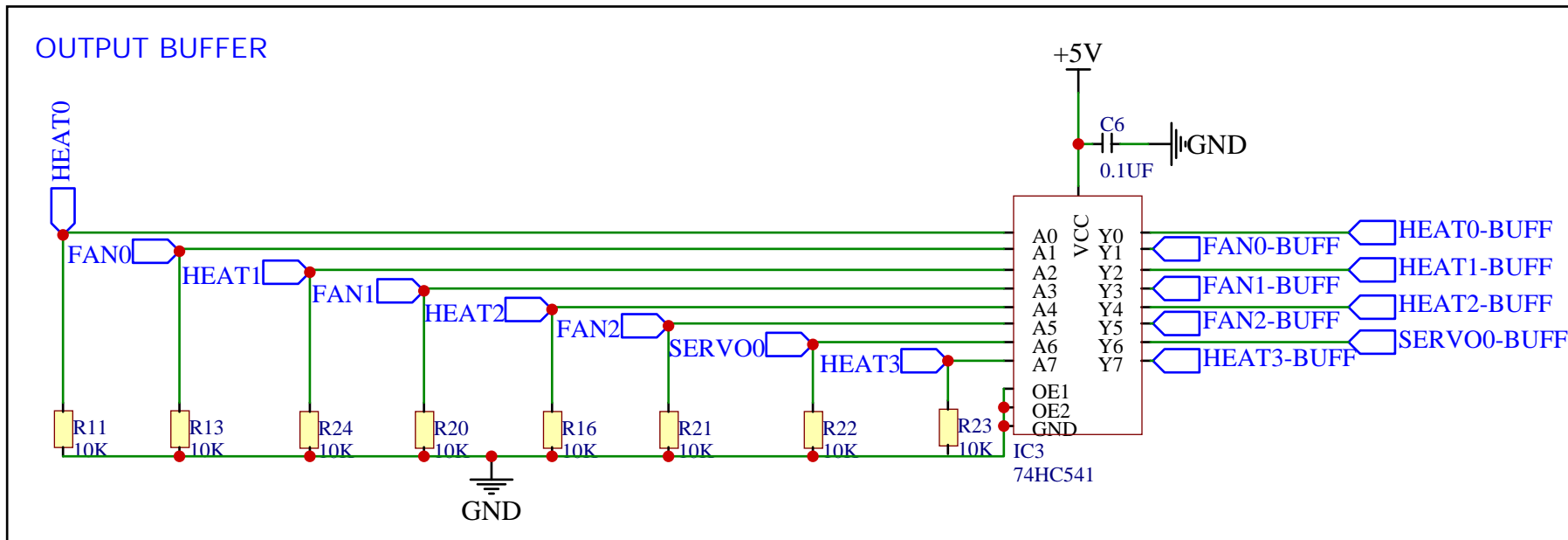
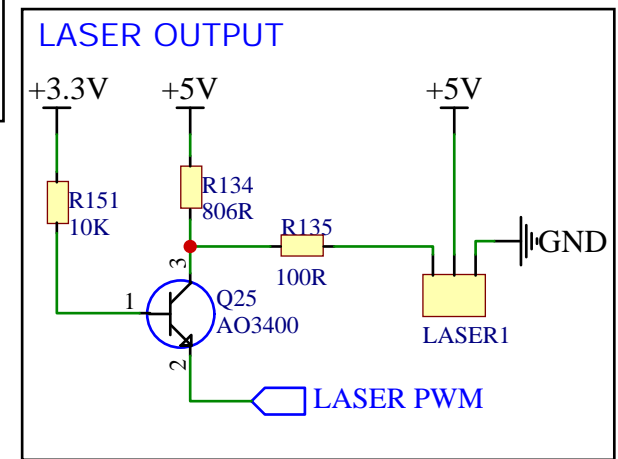
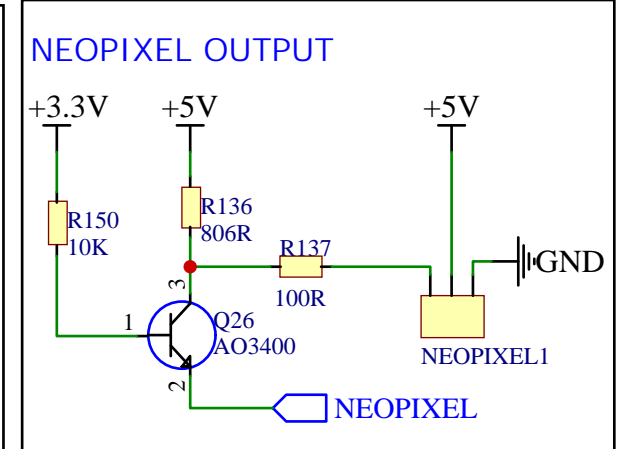
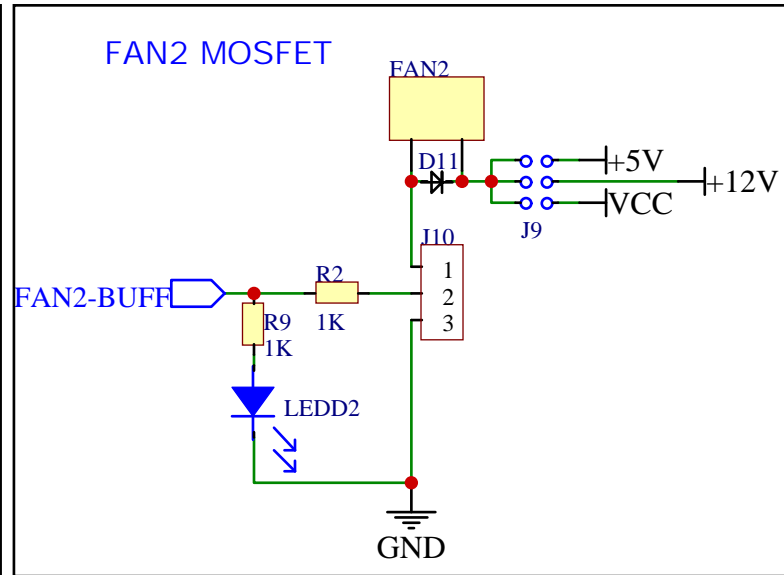
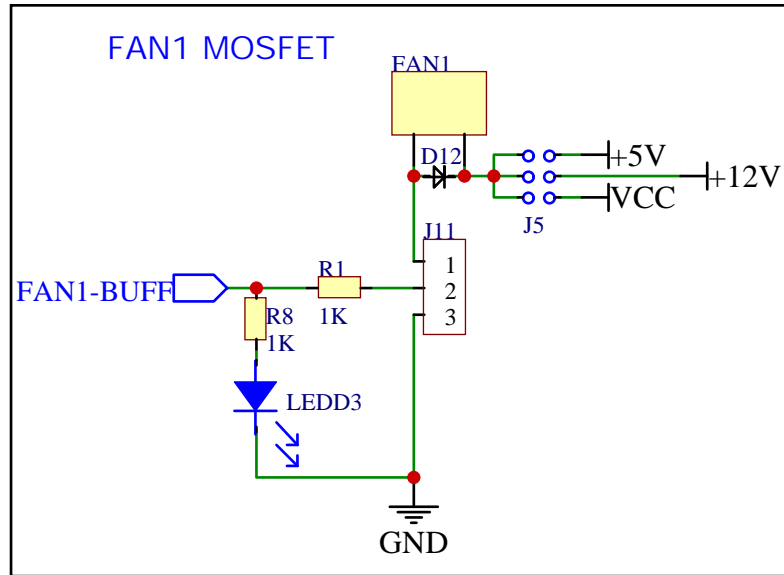
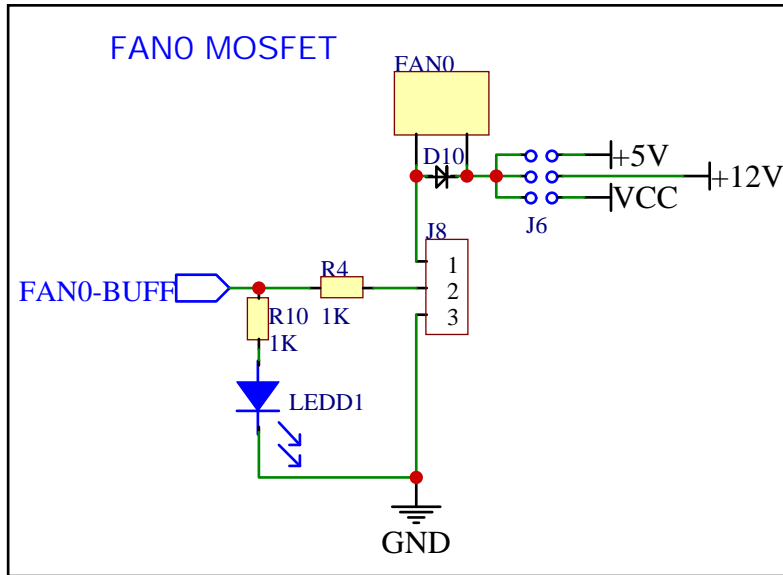
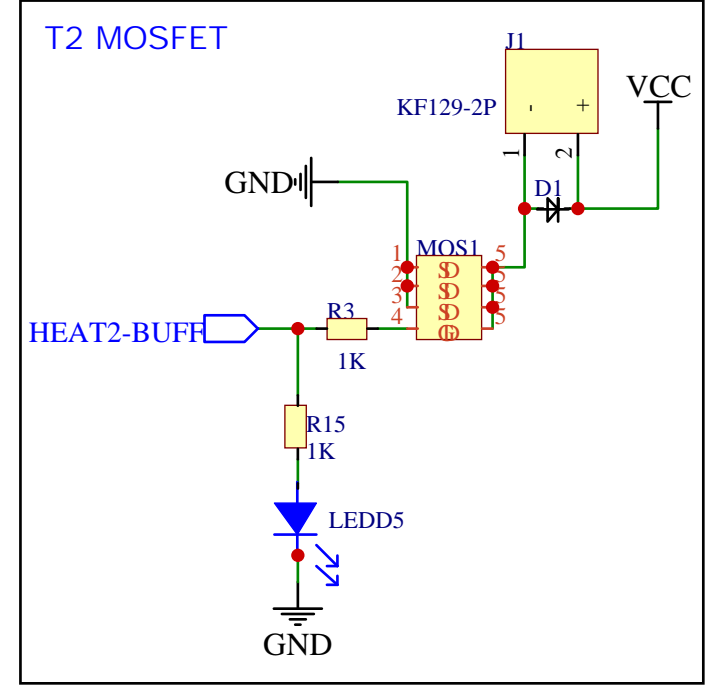
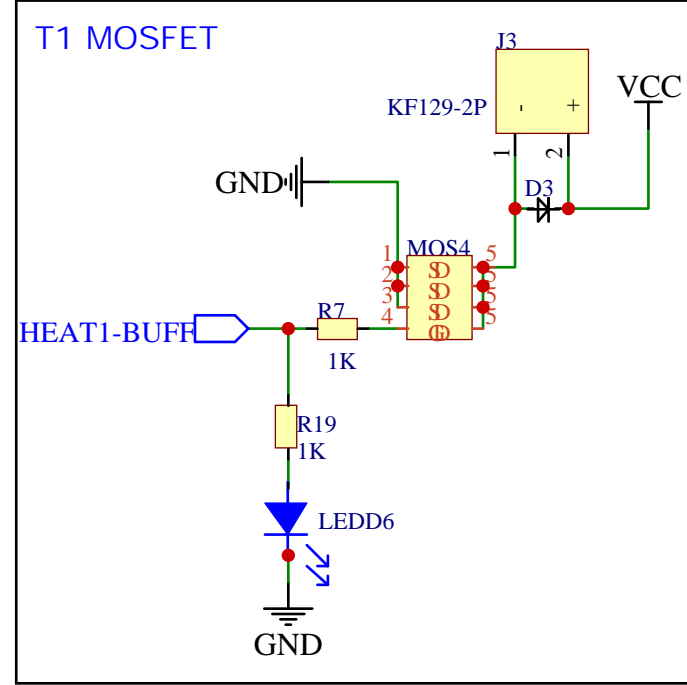
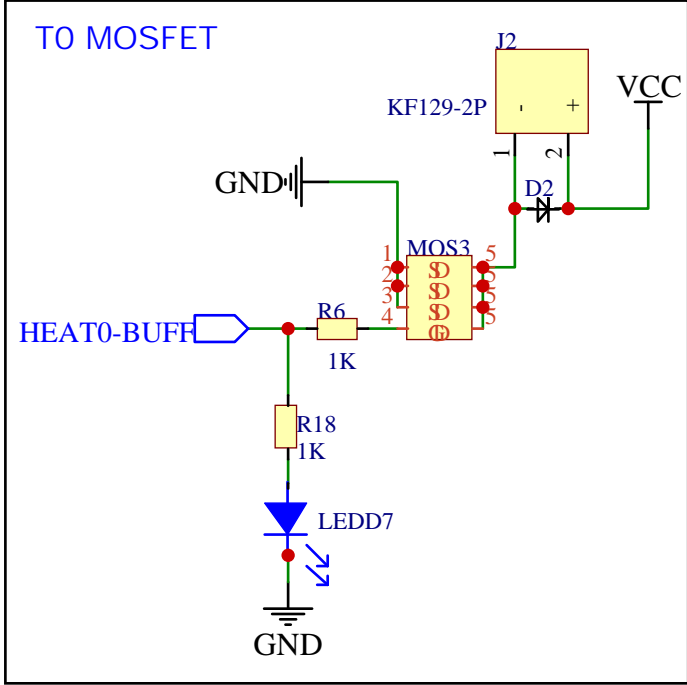
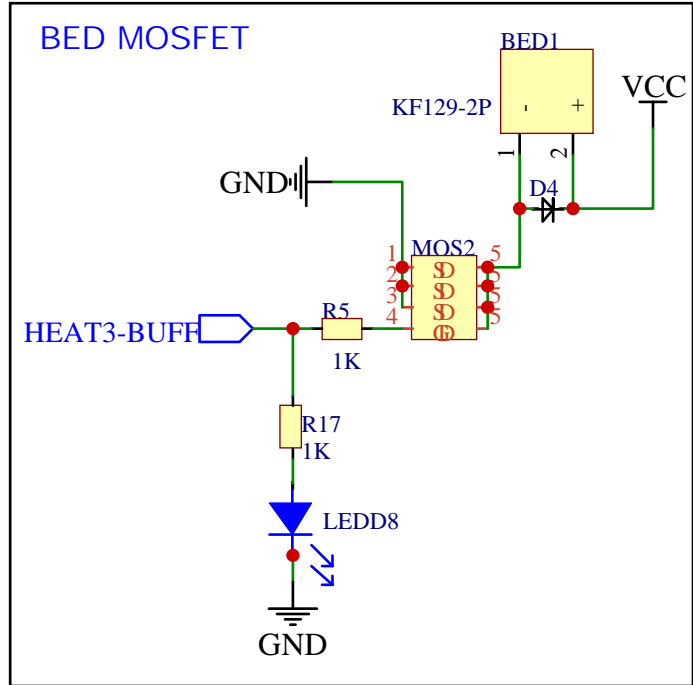


TITLE: CDYV3 OVERVIEW		REV: 1.0
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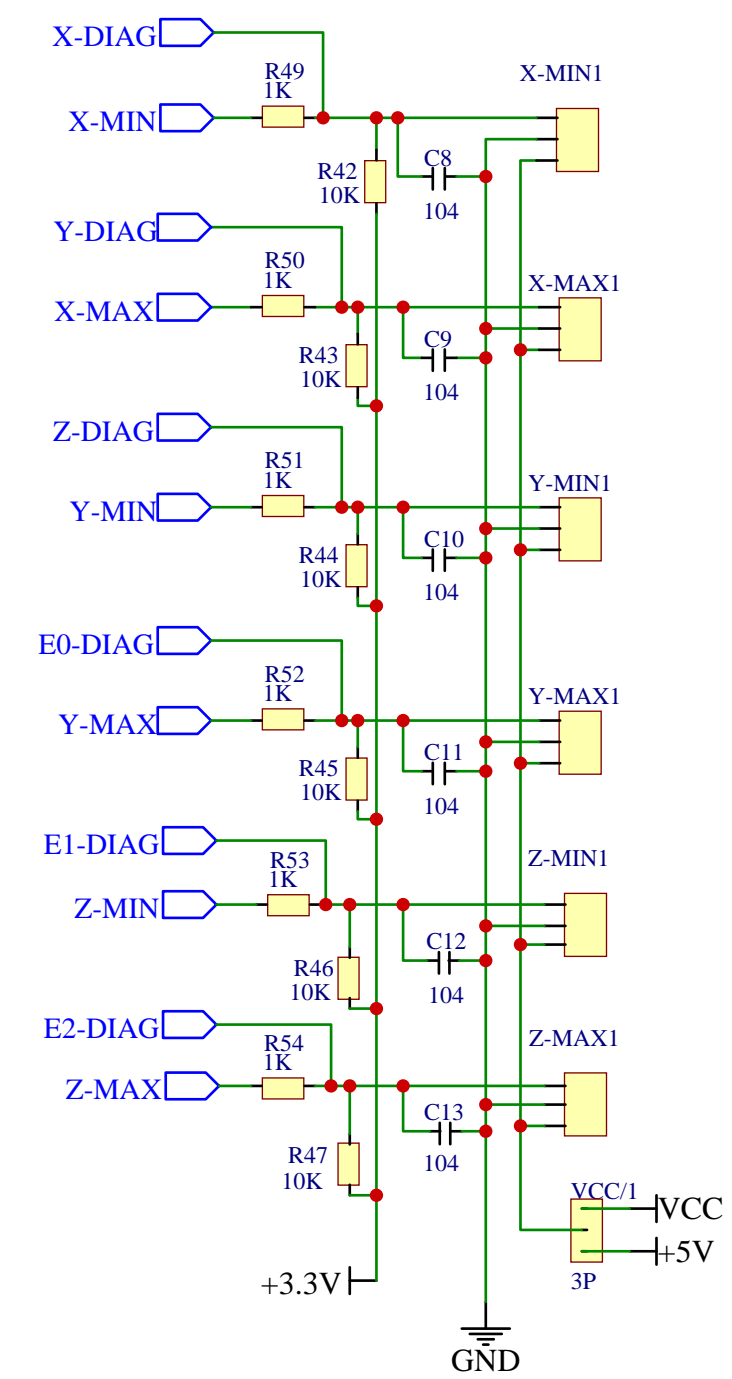
USB SOCKET

The diagram illustrates the wiring for a USB socket. The USB connector (TYPEC-304-BCP16) is shown with pins A1B12, A4B9, A5, A6, A7, A8, B1A12, B4A9, B5, B6, B7, and B8. The A pins are connected to +5VUSB, and the B pins are connected to GND. The connector is labeled USB1. The pins are also labeled with their functions: GND, VBUS, CC1, DP1, DN1, SBU1, GND, VBUS, CC2, DP2, DN2, and SBU2. The connector is connected to a USB socket with pins 13, 14, 15, and 16. Pin 13 is GND, pin 14 is VBUS, pin 15 is DP1, and pin 16 is DN1. The socket is connected to a USB cable with pins DP and DM, which are connected to resistors R63 and R64 (22R) respectively. The resistors are connected to the USB DP and DM pins.

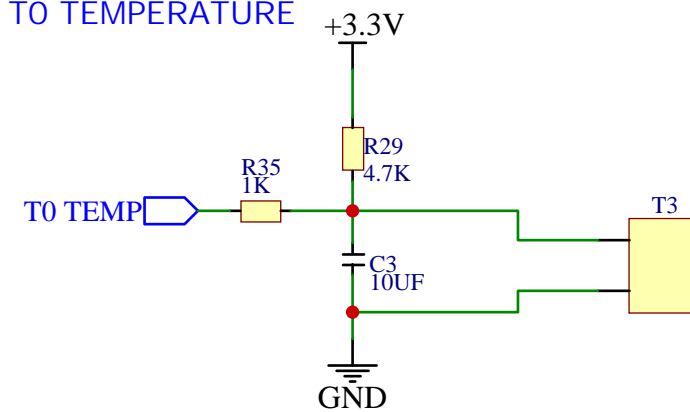
The diagram shows an ESP32 module (U1) with the following connections:

- Power and Ground:**
 - Pin 1 (GND) is connected to a common ground rail.
 - Pin 2 (VDD33) is connected to a +3.3V supply.
 - Pin 39 (GND) is connected to the common ground rail.
- Reset:**
 - Pin 3 (EN) is connected to a +3.3V supply through a 0603C capacitor and a pull-up resistor to the +3.3V supply.
 - The signal is labeled "WIFI RESET".
- LED:**
 - Pin 9 (IO32) is connected to the anode of an LED (LEDD4) through a 1K resistor (R25).
 - Pin 15 (IO12) is connected to the cathode of the LED.
 - The LED is labeled "LEDD4".
- WIFI Connections:**
 - Pin 37 (IO23) is connected to "WIFI MOSI".
 - Pin 35 (IO22) is connected to "WIFI TX".
 - Pin 34 (TXD0) is connected to "WIFI RX".
 - Pin 31 (NC) is connected to "WIFI MISO".
 - Pin 30 (IO19) is connected to "WIFI SCK".
 - Pin 29 (IO18) is connected to "WIFI CS".
 - Pin 26 (IO17) is connected to "WIFI LDATA".
 - Pin 25 (IO16) is connected to "WIFI EDATA".
- Other Pins:**
 - Pin 4 (SENSOR_VP) is connected to a +3.3V supply.
 - Pin 5 (SENSOR_VN) is connected to a common ground rail.
 - Pin 6 (IO34) is connected to a common ground rail.
 - Pin 7 (IO35) is connected to a common ground rail.
 - Pin 8 (IO32) is connected to a common ground rail.
 - Pin 10 (IO33) is connected to a common ground rail.
 - Pin 11 (IO25) is connected to a common ground rail.
 - Pin 12 (IO26) is connected to a common ground rail.
 - Pin 13 (IO27) is connected to a common ground rail.
 - Pin 14 (IO14) is connected to a common ground rail.
 - Pin 16 (GND) is connected to a common ground rail.
 - Pin 17 (IO13) is connected to a common ground rail.
 - Pin 18 (SD2) is connected to a common ground rail.
 - Pin 19 (SD3) is connected to a common ground rail.
 - Pin 20 (CMD) is connected to a common ground rail.
 - Pin 21 (SD0) is connected to a common ground rail.
 - Pin 22 (IO15) is connected to a common ground rail.
 - Pin 23 (IO2) is connected to a common ground rail.
 - Pin 24 (IO0) is connected to a common ground rail.
 - Pin 27 (IO16) is connected to a common ground rail.
 - Pin 28 (IO5) is connected to a common ground rail.
 - Pin 32 (IO21) is connected to a common ground rail.
 - Pin 33 (RXD0) is connected to a common ground rail.
 - Pin 36 (IO22) is connected to a common ground rail.
 - Pin 38 (GND) is connected to a common ground rail.

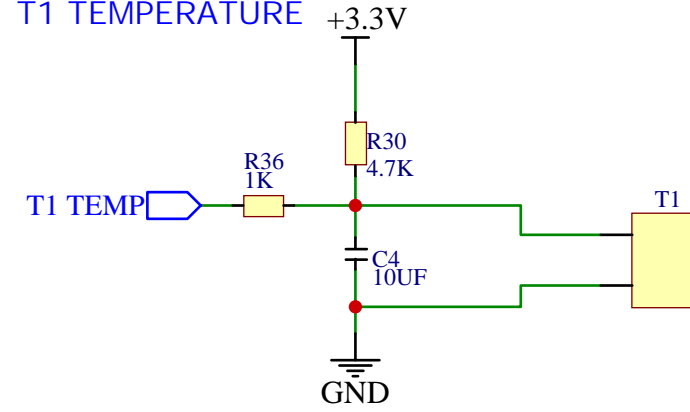
ENDSTOPS



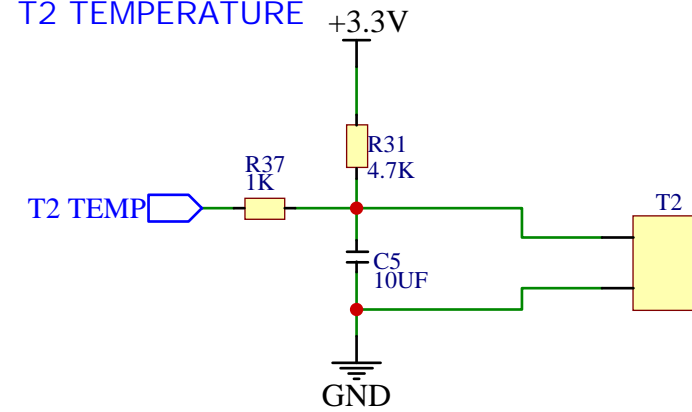
T0 TEMPERATURE



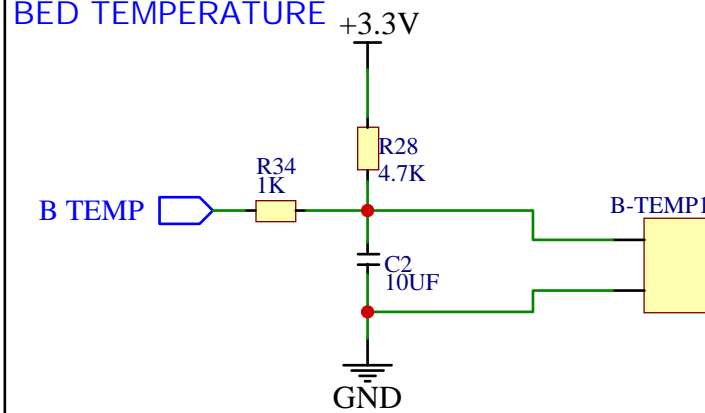
T1 TEMPERATURE

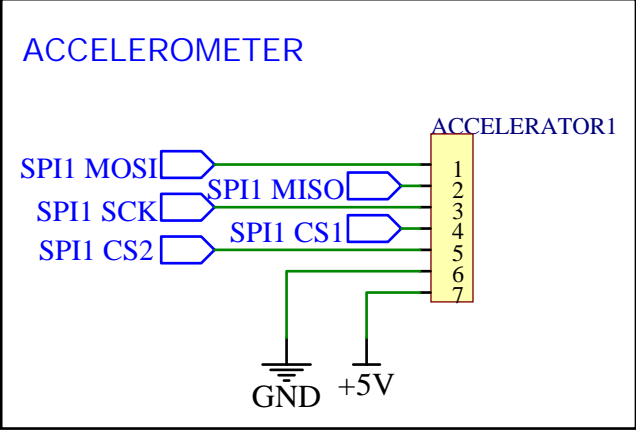
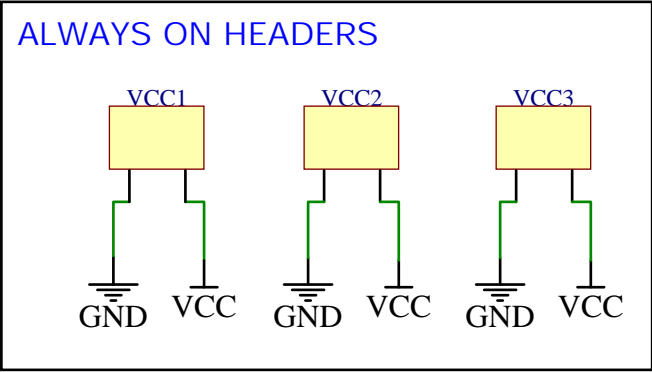
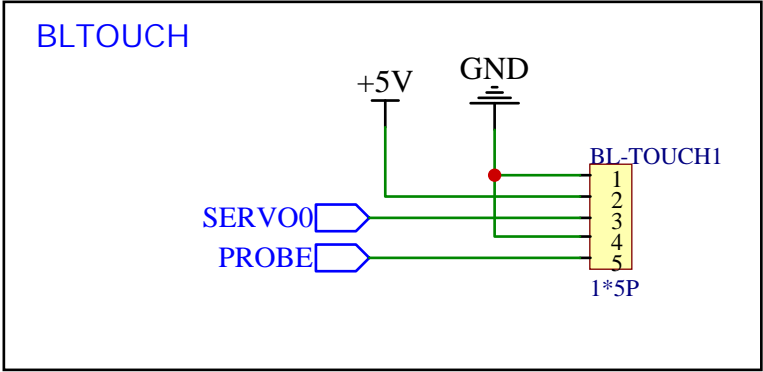
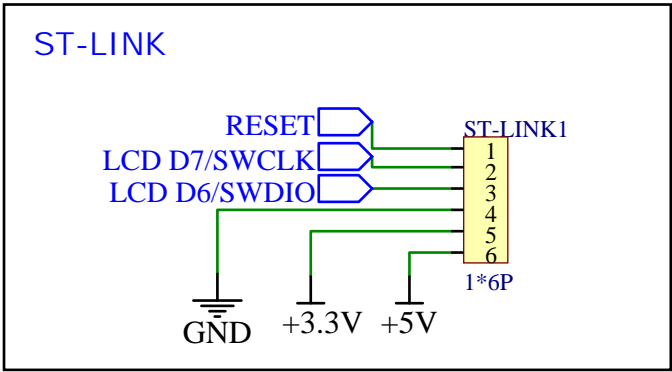
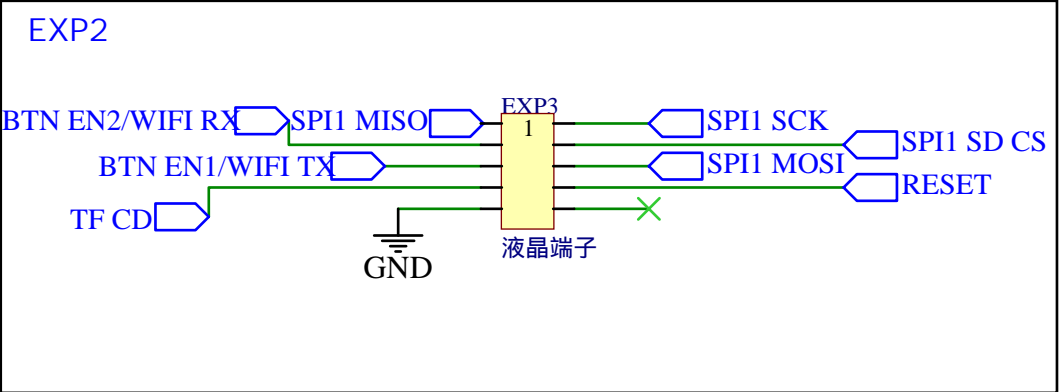
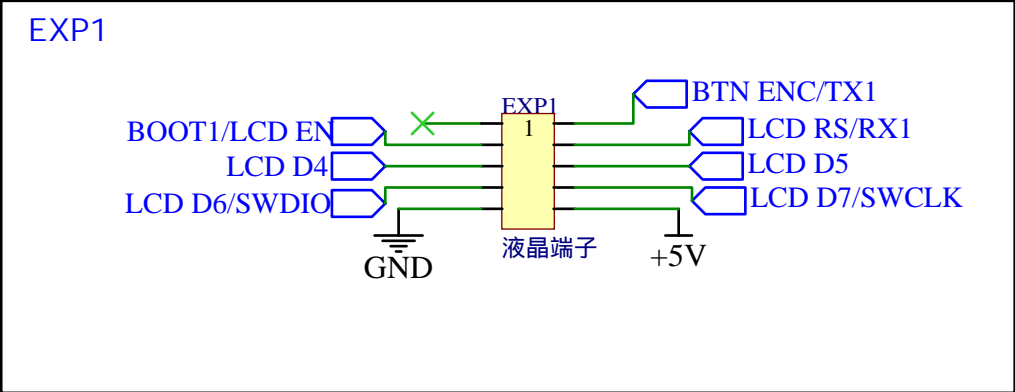
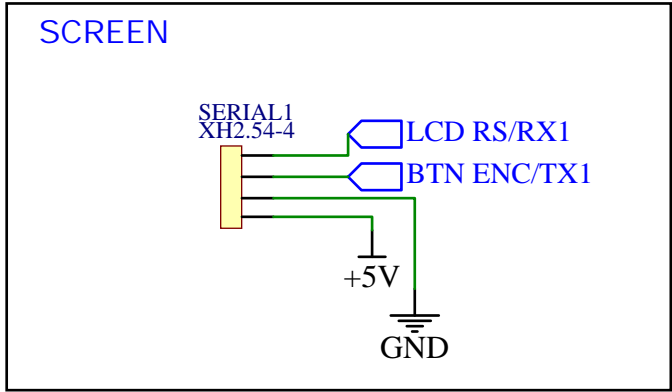


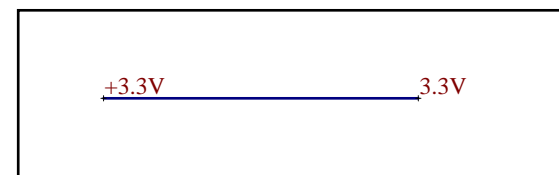
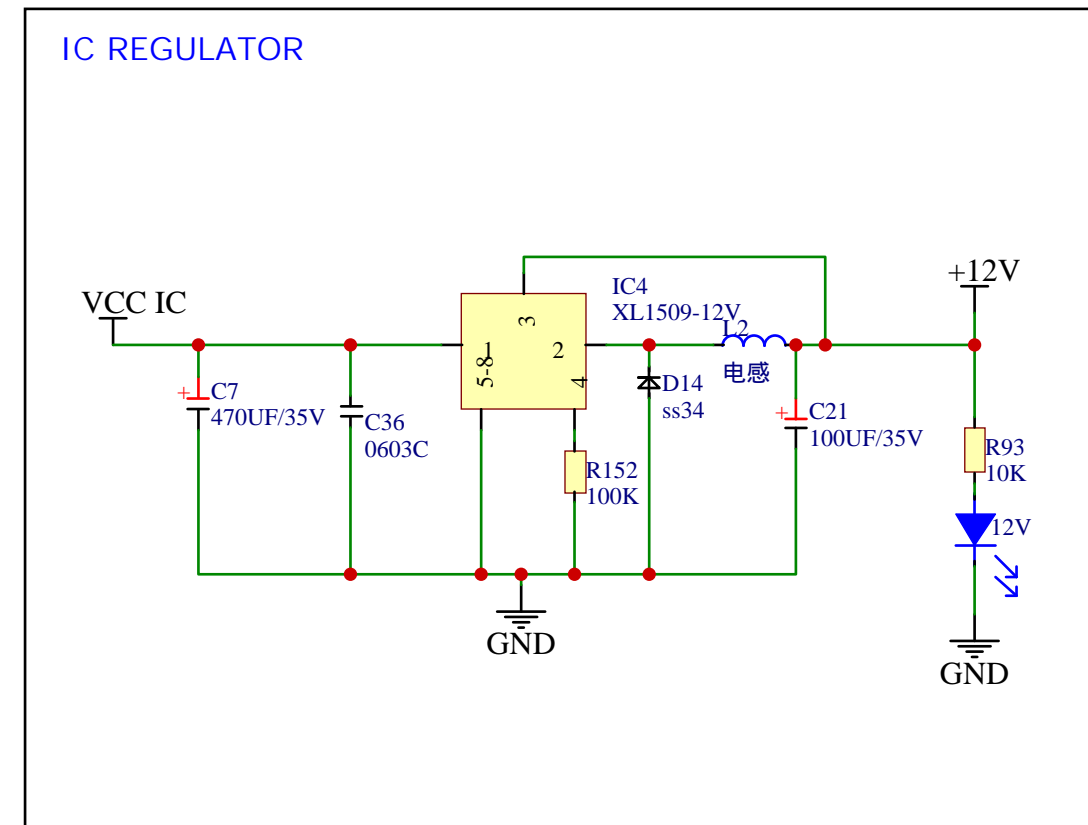
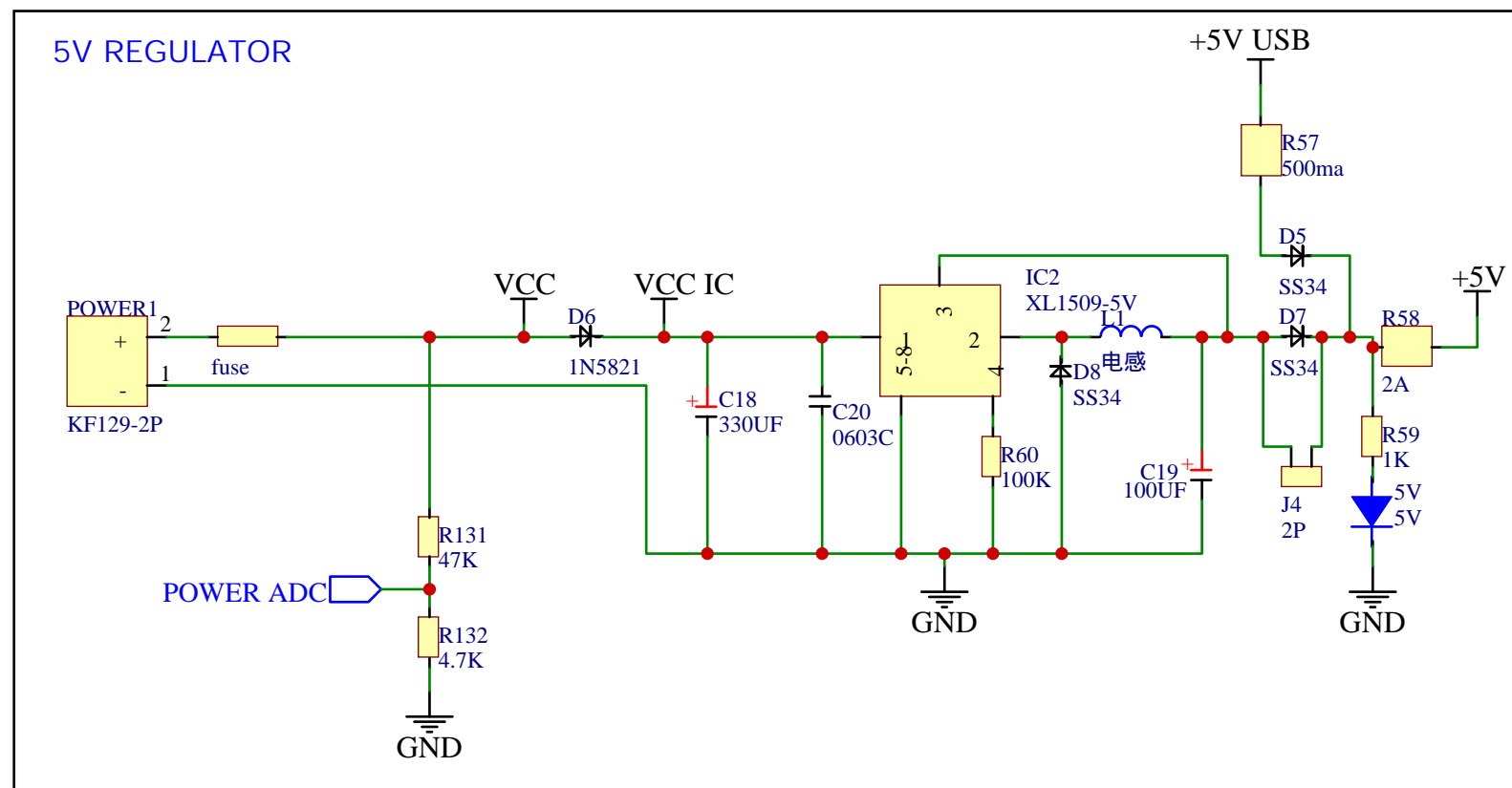
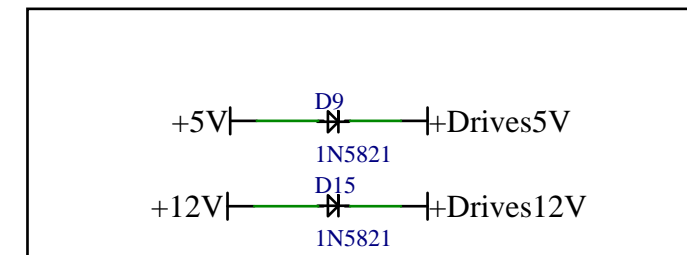
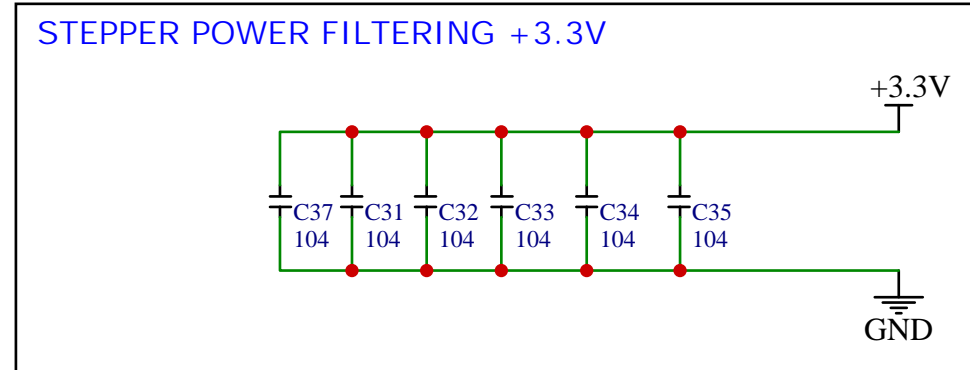
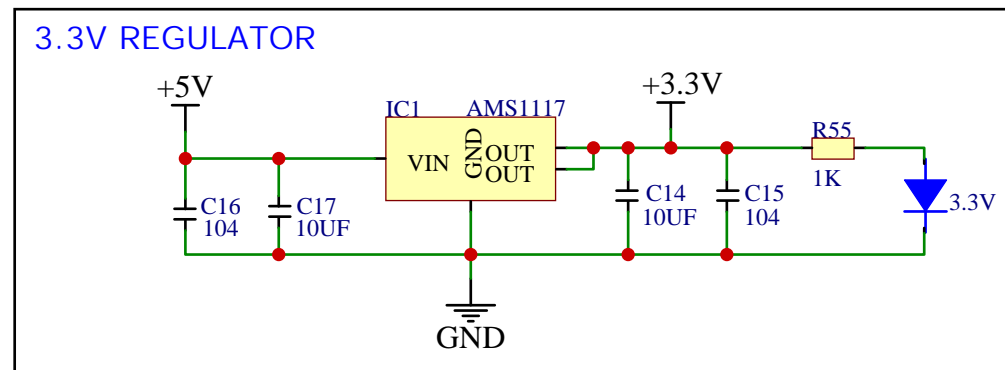
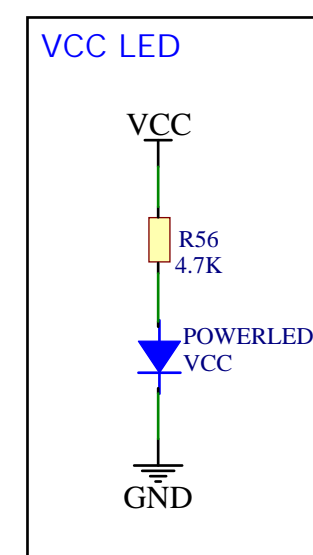
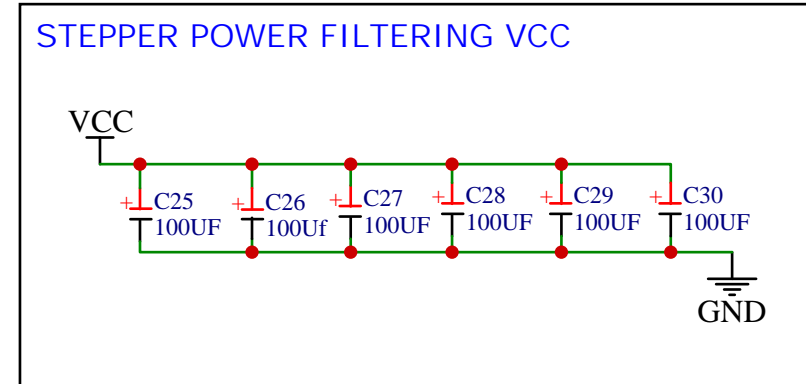
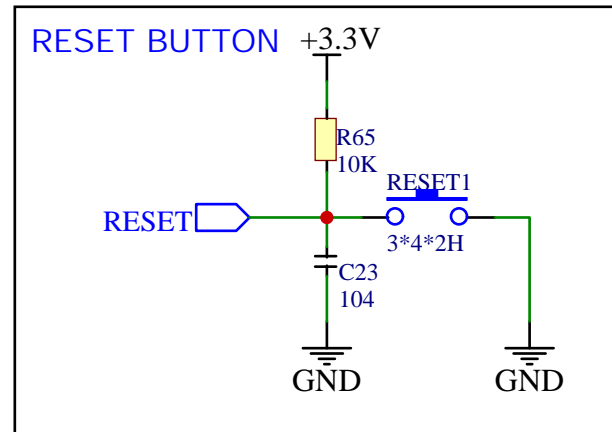
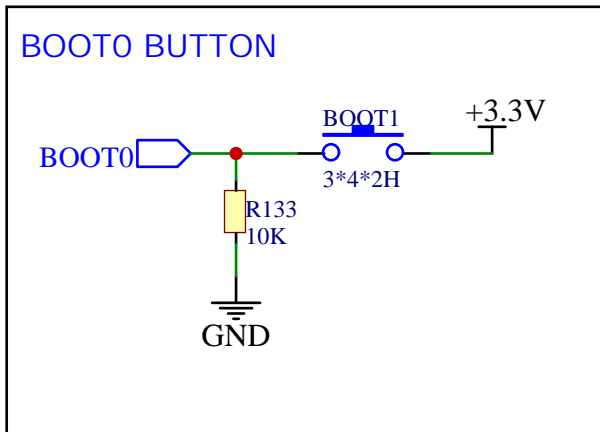
T2 TEMPERATURE



BED TEMPERATURE







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	Date: 2021-11-29 Drawn By: jays_s_uk	