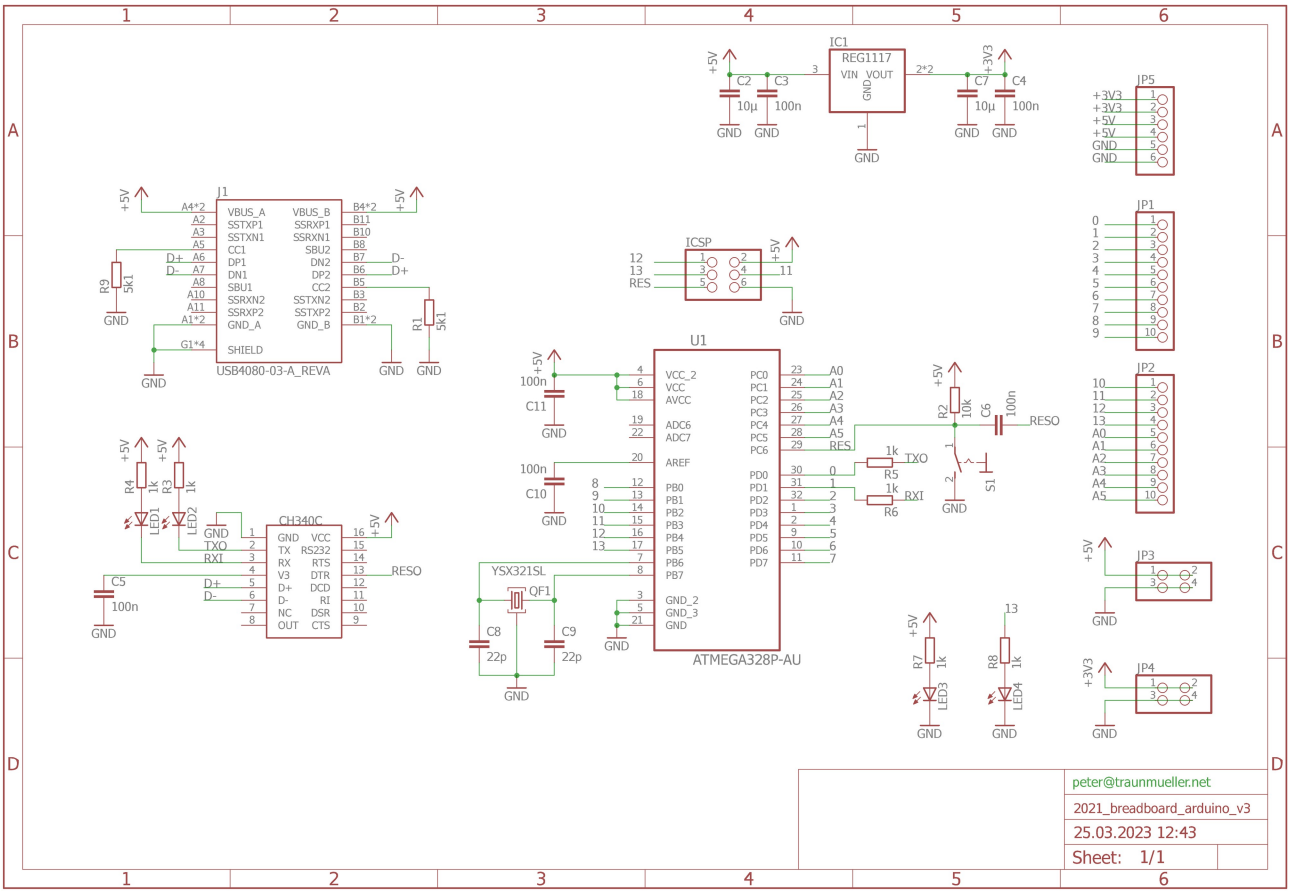
Usage instructions

- The Breadboard UNO clone should work out of the box with a USB-C cable by just connecting it to your computer.
- You need to have the drivers for CH340 installed.
- Settings tested to be working with the Arduino IDE: Tools → Board → “Arduino Uno„
- A blink example with a 9600baud Serial.println is flashed onto the board by default.



Additional information:

An UNO clone to be directly plugged into a breadboard. Supplies +5V and +3.3V directly to the power rails of a breadboard. It is powered by a USB-C port from a powerbank, phone charger or computer. Additionally power can be fed or taken via spare headers for extra devices.

I made this to be able to make prototyping more easy. Building circuits on a breadboard is not comfortable with an Arduino Uno and a lot of wires are needed. This form factor board directly pluggs into a regular breadboard and feeds the power rails into it. This makes setting up circuits faster and less prone to errors.

All the Arduino pins are fed to headers where they can be directly connected to breadboarded components. It can be programmed with the Arduino IDE and behaves like a regular UNO. It has a ATMega328p microcontroller with a 16Mhz external crystal on board. Pin 13 is connected to LED4 on the board, the "blink" example therefore works out of the box. There is an ICSP header for programming with the Atmel studio without the Arduino framework or bootloader. The Arduino bootloader is preinstalled.

The output current from the 5V rail is limited by the supply, but should not go beyond 1A. On the 3V3 rail, the output current should not exceed 0.8A. The regulator (IC1) can get hot while drawing current over 3.3V. There is a power on LED to show the 5V being supplied. RX and TX pins also have LEDs to show the upload status.

ATTENTION: The item still is a prototype. It is working as intended, but funny quirks and other things are possible. It is not certified and only suited for prototyping.

If you have any questions, just shoot me a message!

Have fun tinkering and thanks for buying!