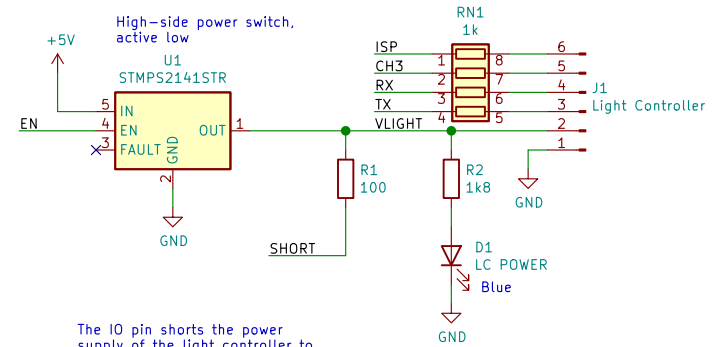
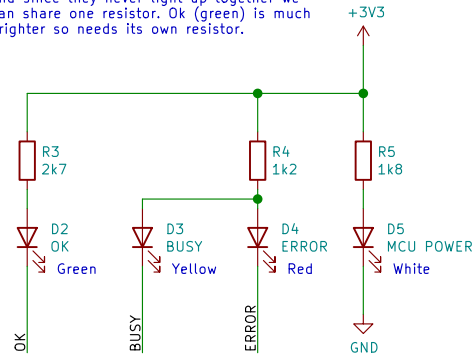
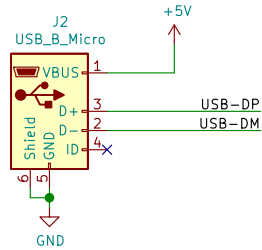
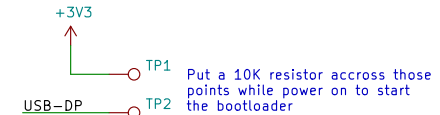
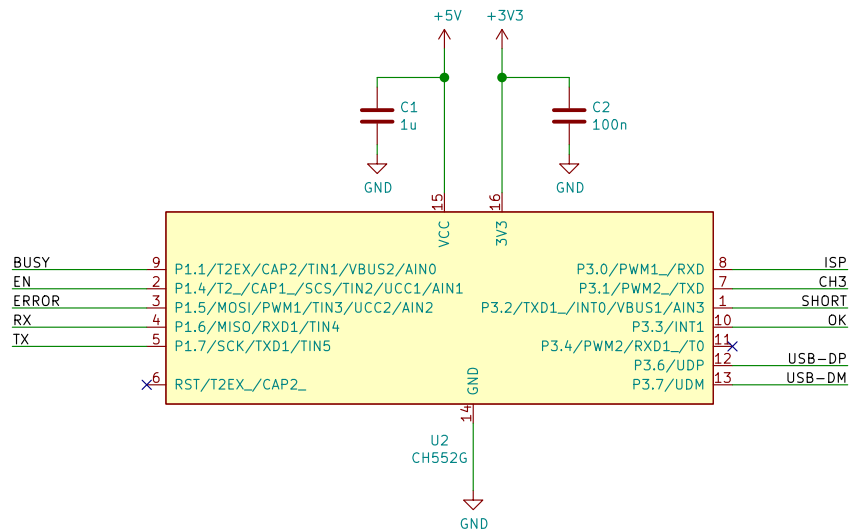


The LEDs are connected at the cathode up after power up before the software can initialize the ports (pull-up by default). Error and Busy use the same resistor value, and since they never light up together we can share one resistor. Ok (green) is much brighter so needs its own resistor.

Important: for mechanical stability use a Micro-USB connector that uses through-hole mountings.



The 10 pin shorts the power supply of the light controller to ground via 10 Ohms. This discharges the large cap in the light controller, otherwise subsequent programming attempts may fail as the MCU in the light controller is still residually powered (when no firmware is flashed yet!)



LANE Boys RC

Sheet: /

File: webusb-programmer-ch552.sch

Title: WebUSB Programmer for Light Controller Mk4

Size: A4

Date: 2021-03-21

Rev: 3

KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu18.04.1

Id: 1/1