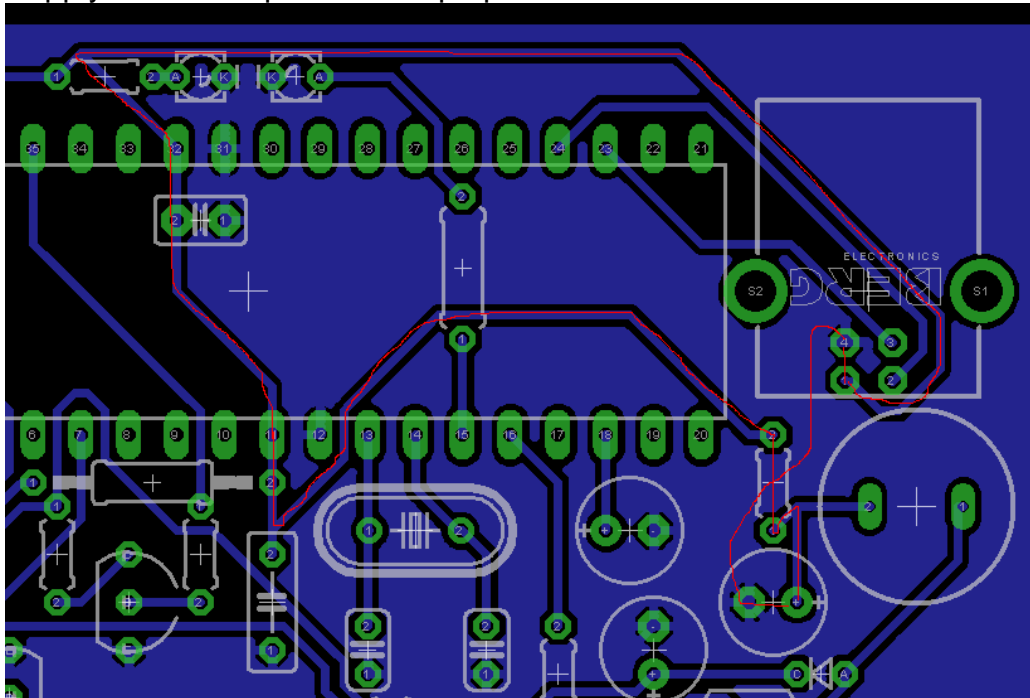
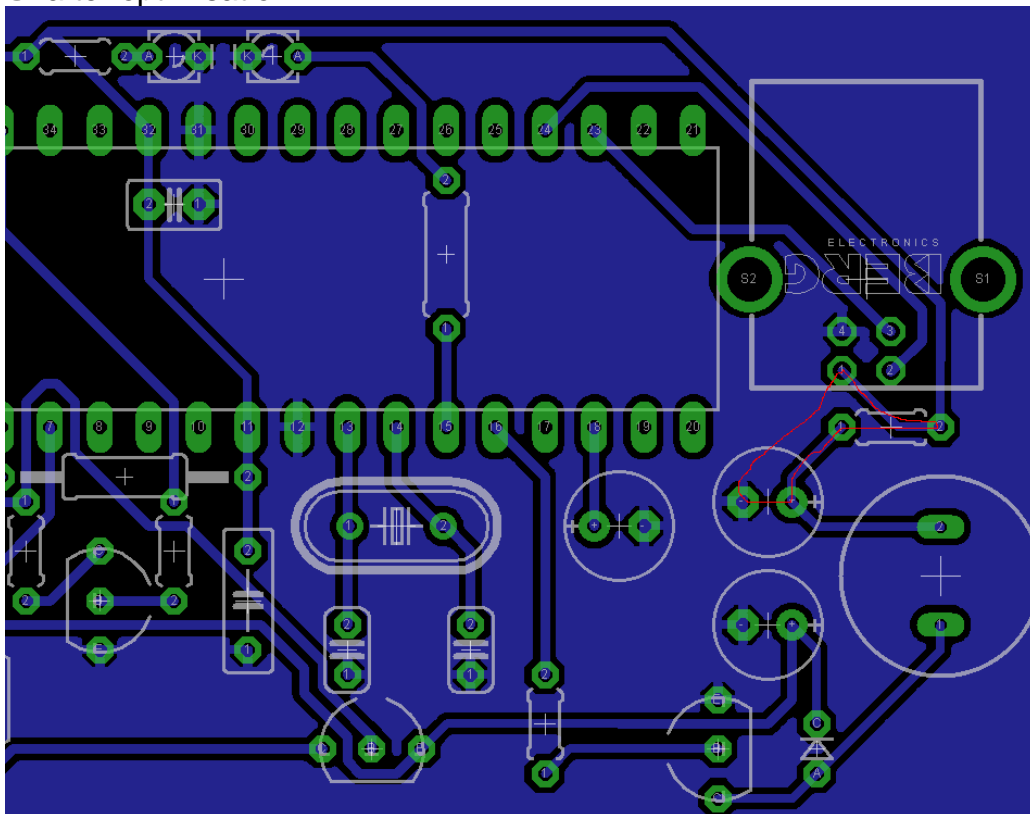


Step up converter.

Supply current loop for the Step up converter

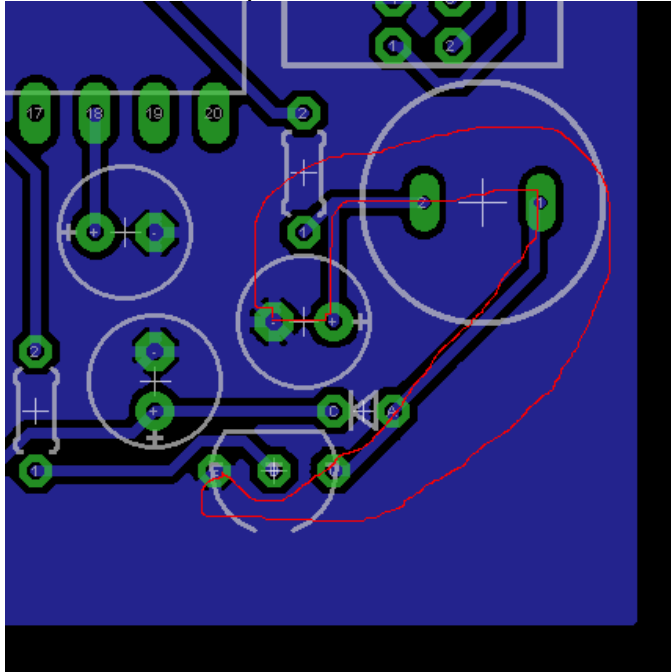


à after optimisation:

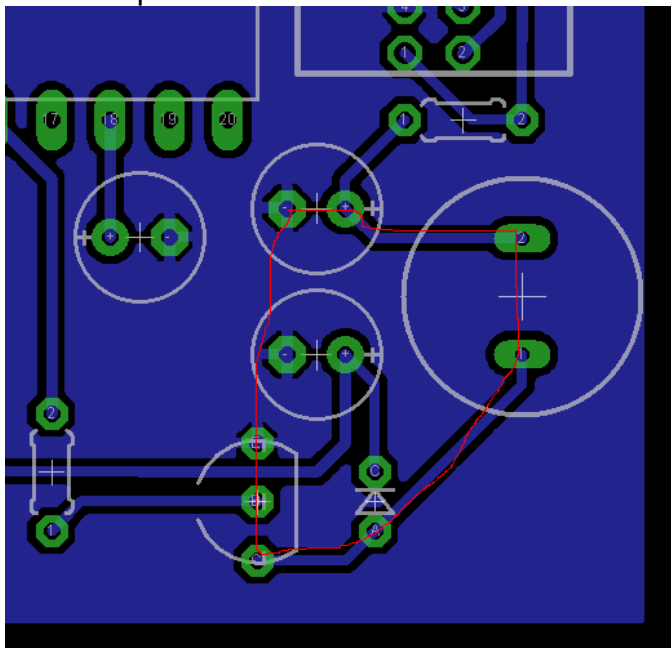


The loop is much smaller. And the MCU is not involved in the current loop anymore.

Pulse current loop when switch is ON.

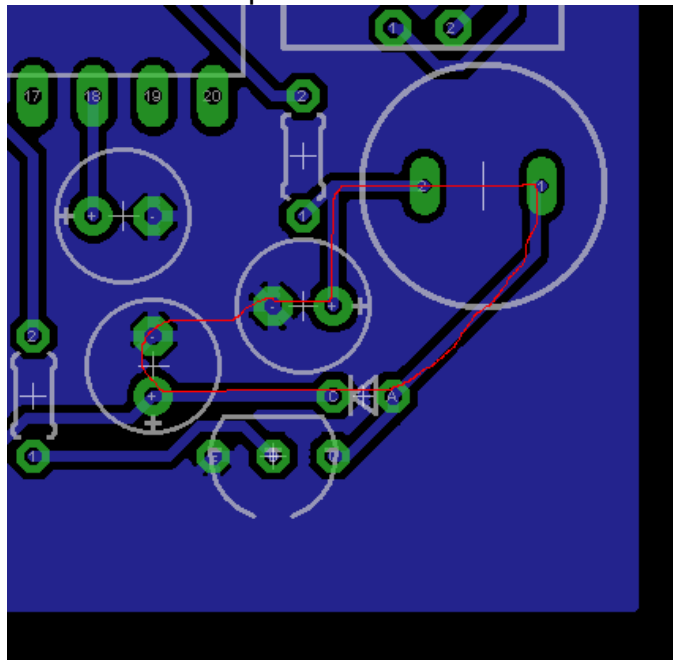


à after optimisation

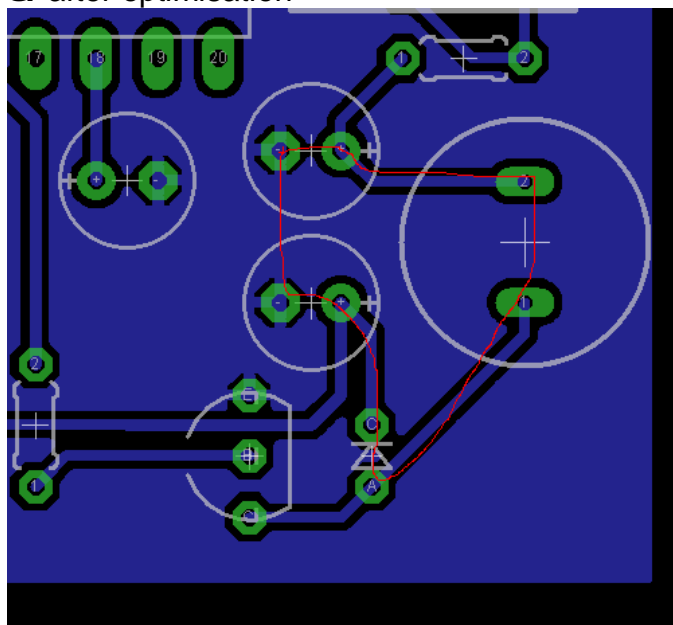


The current loop is shorter now.

Pulse current loop when switch is OFF

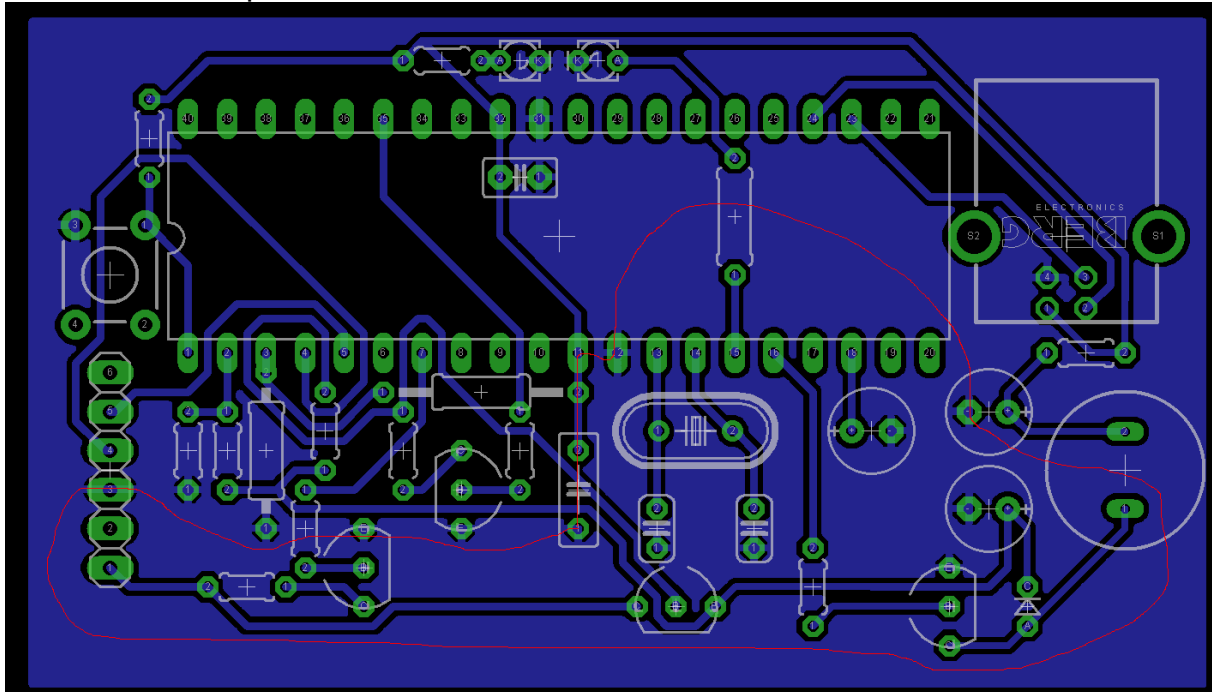


à after optimisation



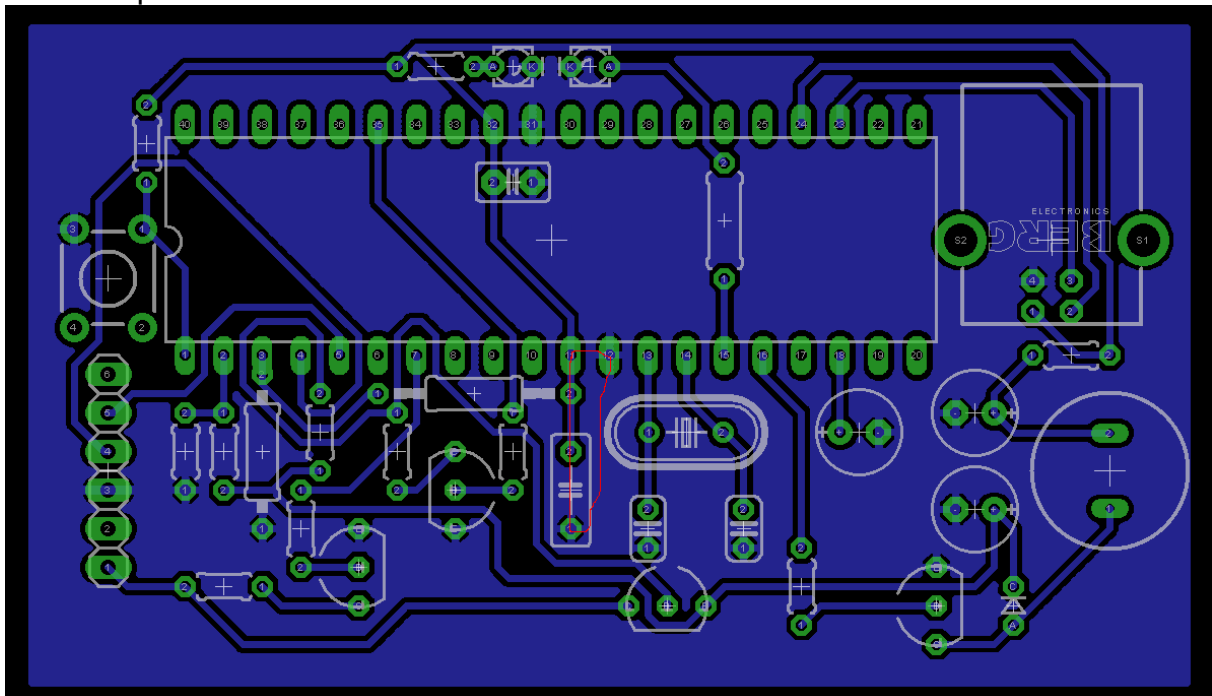
Here is no big improvement

Pulse current loop for the MCU.



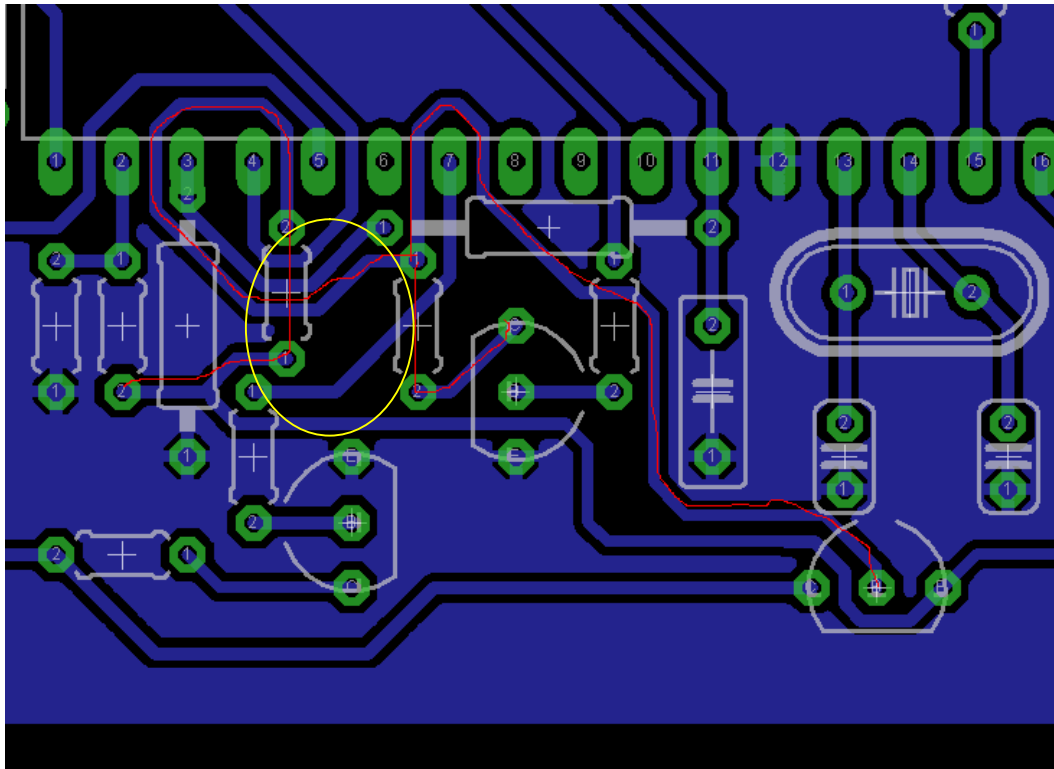
A MCU causes current pulses in the supply lines. The ceramic capacitors should keep VCC stable, therefore it needs a short current loop.

à after optimisation

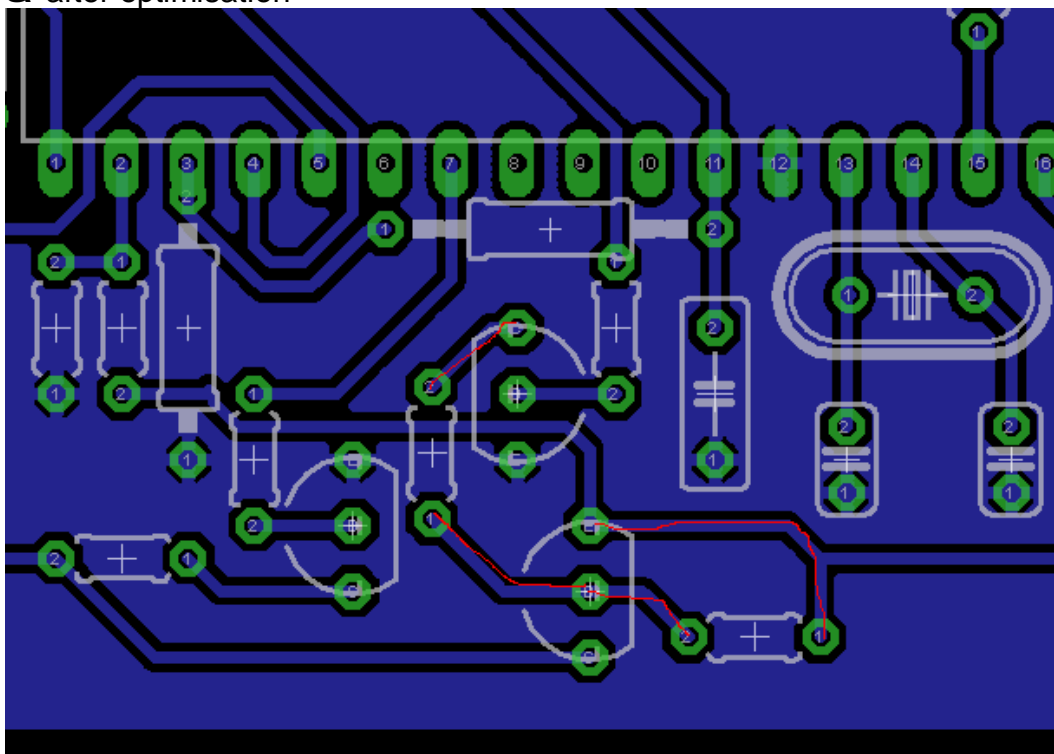


Two traces moved... and the loop is much shorter.

Placement, wiring in general.

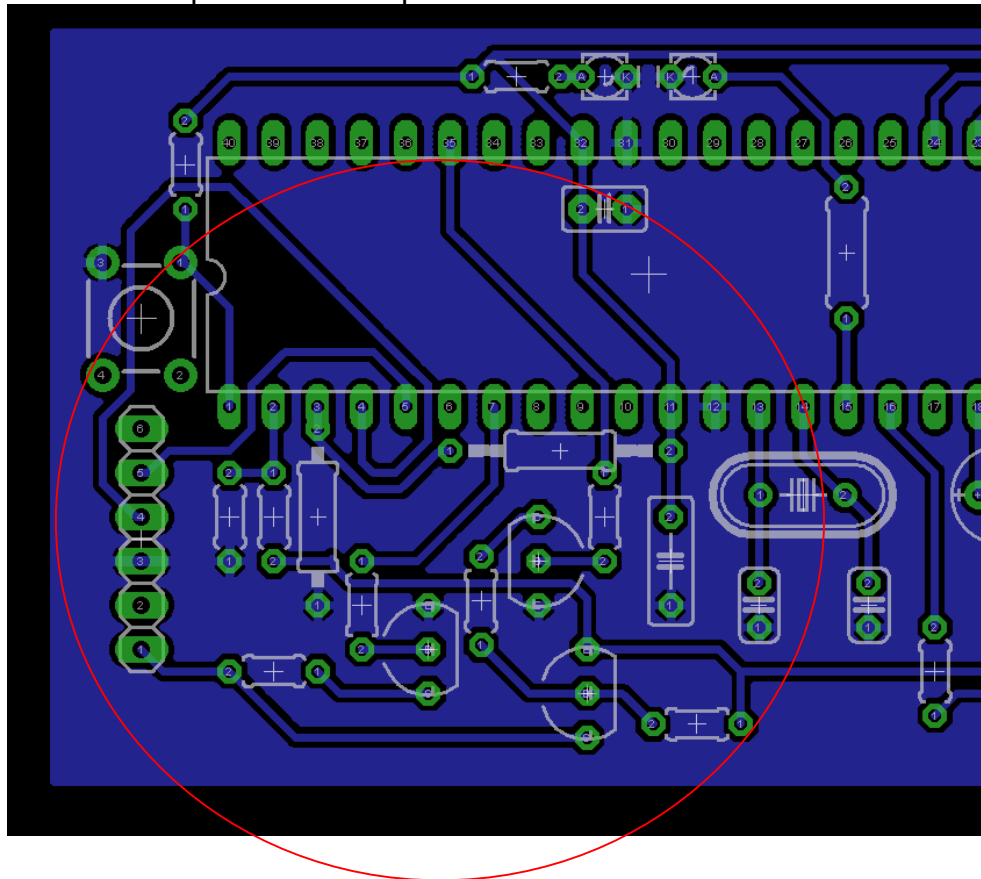


à after optimisation

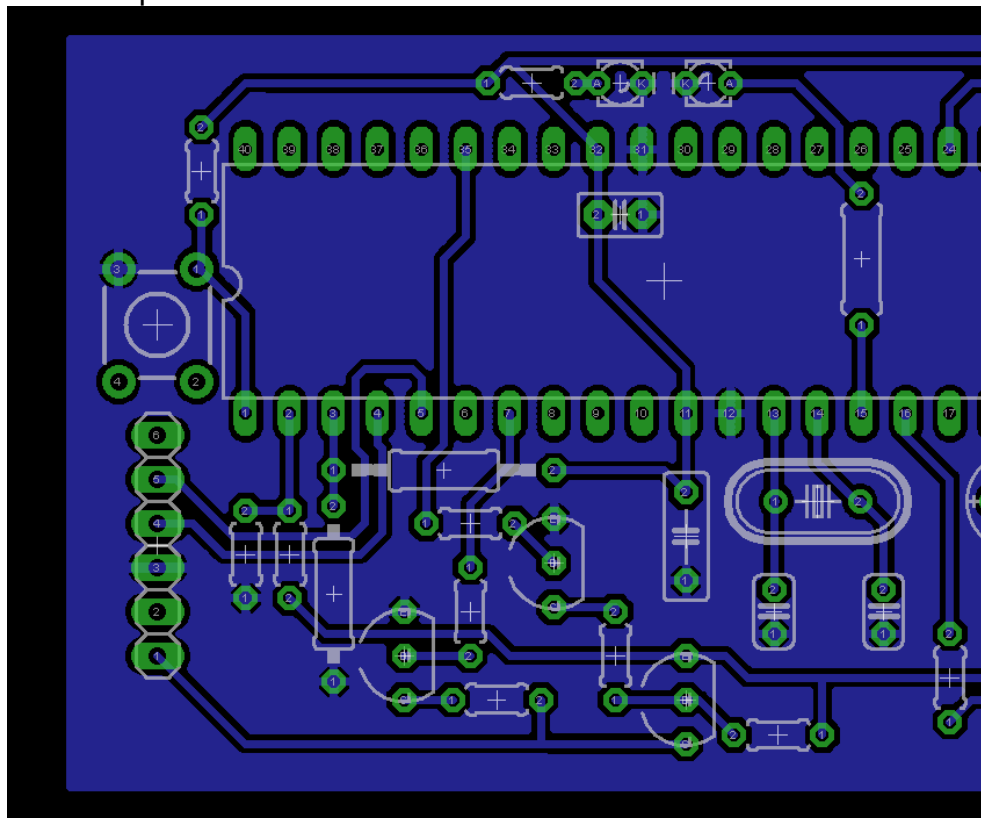


Base-Emitter resistor moved, some minor movements makes the wires more short and more immune against noise.

Additional improvements in placement.



à after optimisation



Shorter signal traces and more solid GND plane.