

Project - PCB Power Supply Design

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SUMMARY

Overview;

Designed and prototyped a PCB power supply that accepts 12V and outputs 12V, 5V and 3.3V with dampened peaks and troughs. I used scrap for the initial design, then transferred this onto a breadboard (figure 1) where I checked voltages using a multimeter. I then transferred this to a circuit diagram in KiCad (figure 2) and assigned component footprints according to their specifications (figure 3). Finally using KiCad I produced a 3D model of the circuit board (figure 4) and sent off the PCB design to OSHPark a PCB manufacturer.

Figures;

