



## Company profile: Koller Elektronik GmbH

Koller Elektronik GmbH is a small company in Eschenbach Switzerland, officially registered in 2007. The company specialises machine construction engineering, and electronic design.

**Koller Elektronik GmbH is dedicated to providing efficient customer service, offering premium electronic designs at competitive prices**

The range of electronic designs includes PCB layouts, digital hardware development and microcontroller programming.

Our extensive experience designing complex high-density layouts, means we understand the importance of signal integrity and affects of crosstalk, signal reflections and impedances. We use quality Altium technology in our designs. Koller Elektronik GmbH is highly proficient in designing and producing intelligent power electronics for motor control, critical power supplies and microcontroller designs.

Koller Elektronik GmbH developments are documented in English or German using L<sup>A</sup>T<sub>E</sub>X, a high-quality typesetting system.

## Projects:

- On-Screen-Display on a PAL video signal. The design visualised the traveled distance of a tube-robot. This was created with PIC micro controller
- Various high-speed camera modules, created with digital and analogue environment layouts
- ESD circuits, development and layout. The high currents and strict standards require sophisticated solutions at connector pins, and protection of USB2.0 data lines against ESD influence
- Design of hardware test environment, which is controlled and analysed via Python script language
- Layout, hardware construction and production of JTAG adapters for Blackfin processors
- Development of analogue high speed paths, and its simulation with PSpice
- Power supply designs with space constraints for digital, and sensitive analogue voltages
- Digital hardware development with Xilinx and Altera FPGAs, and design of test benches for simulation on ModelSim

Koller Elektronik GmbH is dedicated to providing solutions for customers. So if your company is at capacity and you want to subcontract labor, or if you require sophisticated electronic designs, contact Koller Elektronik GmbH. We will endeavour to create a solution that meets your needs at a competitive market price.

For further information visit [www.koller-elektronik.ch](http://www.koller-elektronik.ch)