



Blunk electronic
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Products & Services

"I want to contribute to the success of our customers. Good products result from good tools, personal efforts and visions."

Mario Blunk
CEO and owner of Blunk electronic

Introduction Company *Blunk electronic*

Founded: August 2009 as sole proprietorship

Owner: Dipl. Ing. (FH) Mario Blunk

Fields of activity:

- development, design, test and low volume manufacturing of electronic units for industrial and medical customers
- controlled design from concept to product
- software development for mission critical applications
- administration of Linux based operation systems

1. CAE Consulting and Project Support

- *EDA tools CadSoft EAGLE and KiCad*
- *feasibility analysis, design review and assessment*
- *signal integrity, EMC, EMI*
- *schematic- and PCB design*
- *Design for Test (DFT)*
- *CAM-data generating, review with tools Pentalogix Viewmate, Gerbv*
- *bill of material*
- *process control concept-design-prototype-manufacturing*
- *tool chain providing via virtual machines*
- *version control with git <https://git-scm.com>*



2. Logic Synthesis

- *Verilog / VHDL*
- *CAD tools Xilinx ISE*
- *CPLD, FPGA programming*
- *simulation*



3. Manufacturing of Prototypes

- *samples, pre-production series, low volume production*
- *cooperation with <http://www.technikron.de>*
- *part sizes from 0402 onward, trace width/clearances from 0.1mm onward*
- *multilayer boards up to 16 layers*
- *documentation for production and assembly*



4. Boundary Scan Test / JTAG acc. IEEE1149.x

- *tools [System M-1](#), Göpel CASCON*
- *integration in ATE (Flying Probe, In-Circuit-Test, ...)*
- *netlist check, design check*
- *generating and verifying models*
- *low-level fault diagnosis*
- *in-system-programming*



5. Transfer to Series Production

6. Supplier Quality Assurance (SQA)

- *consumer, automotive, medical device electronics*
- *monitoring fabless foundries performance and IDM companies*
- *negotiating technical terms of delivery for raw PCBs and subassemblies*
- *thorough support to ensure product reliability and security of supply*
 - ➔ *product and process change management*
 - *FMEA based risk assessment*
 - *control plan preparation and surveillance*
 - ➔ *control and routing of non-conforming products*
 - ➔ *complaint management*
 - ➔ *product portfolio and technology life cycle management*
 - ➔ *reliability assessment to determine load depending wear out behavior and mechanism*
- *use of QM-tools such as 8D-reporting, APQP, PPAP, FMEA, HAZOP, MSA etc.*
- *training regarding manufacturing related device and component reliability and also SPC*

7. Network- and System Administration

- *consulting and training*
- *UNIX & Linux Server and Desktop*
- *data backup and archiving*
- *Migration from Windows-Systems by Wine & Crossover*



8. Software Development in ADA 2005/2012

- *under Linux operating systems by Gnat Compiler*
- *safety relevant applications*



We look forward to working with You !

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