

WELL-CONCEIVED FROM THE START

— OUR SERVICES AT A GLANCE

HIGH QUALITY WITH A VISION

INNOVATION. DEVELOPMENT. SOLUTIONS.

Wentronic Solutions develops and produces electronic components and assemblies according to specific customer requirements. Our particular focus is on our extensive expertise in hardware and software development, which is integrated into every development process from the outset – individually and at the highest level.



From partnership to merger: Acquiring af inventions, a top hardware and software developer from Braunschweig, has significantly expanded our capabilities. Now part of Wentronic Solutions, af inventions strengthens our position within the Wentronic Group, enabling us to offer customers even more precise and comprehensive hardware and software solutions. From idea to product.

WE DEVELOP FOR YOU!

ELECTRONICS DEVELOPMENT

We offer you bespoke, one-stop hardware and software solutions. With our extensive experience in the field of electronics development, we create the perfect solution tailored to your needs.

TAILOR-MADE FOR YOU —

CONTROL ELECTRONICS AND INDUSTRIAL ELECTRONICS

Do you require specialised control or industrial electronics for your product? Based on your specifications, we develop solutions customised to your individual needs. Whether it's processors, microcontrollers or programmable logic, we create a viable concept that



is based on your requirements. Thanks to our efficient development process, we can ensure you swift availability of the required electronic components.

MORE POWER, —
MORE SPEED

HIGH-SPEED PROCESSING ELECTRONICS

With our vast experience in developing processor platforms for signal and data processing, we are your competent partner in designing and implementing high-speed processing platforms. For increased power and speed, we combine suitable processors with FPGAs and implement IP cores that boost the overall system performance.

»IN THE WORLD OF TECHNOLOGY, OUR KNOW-HOW IS NOT JUST KNOWLEDGE; IT IS OUR PROMISE TO GO BEYOND THE ORDINARY.«

— MARCUS WENDT, CHIEF EXECUTIVE OFFICER

EFFICIENCY MEETS QUALITY —

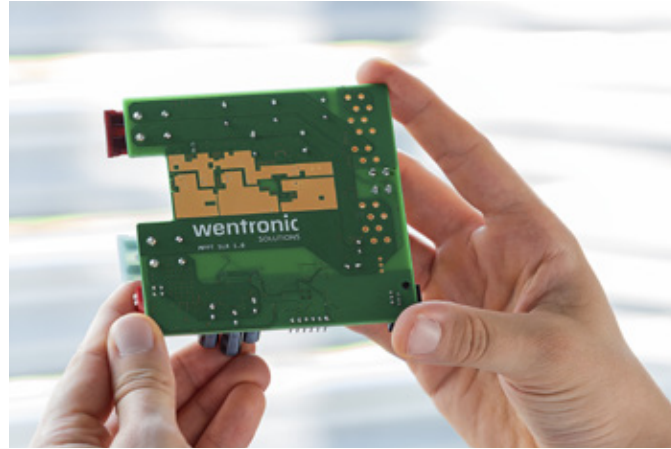
DATA PROCESSING ELECTRONICS

From sensor data acquisition to data mining, we offer high-quality solutions for all your needs. Using programmable logic, we parallelise and significantly accelerate data processing operations.

STRONG IN-HOUSE EXPERTISE

PCB DESIGN SERVICE - PCB LAYOUT

Electronics development for high-speed data processing and transmission electronics are our special focus areas. You are welcome to leverage our expertise for your project.



Based on your requirements or specifications, we create the circuit diagram for your component and transfer the EMC-compliant layout of the circuit board to our up-to-date, professional CAD system.

FIELD-PROGRAMMABLE-GATE-ARRAY

FPGA DEVELOPMENT

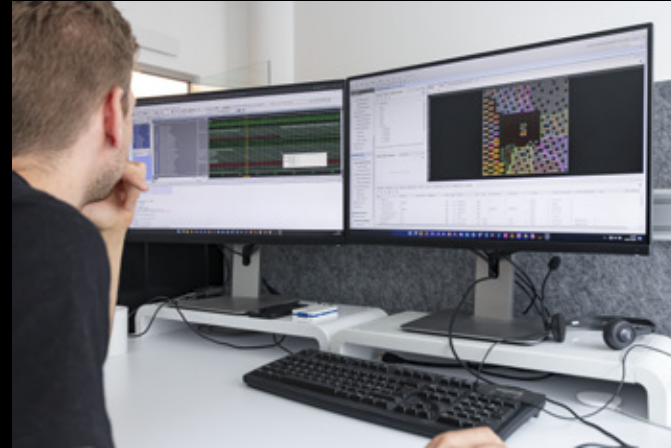
We provide comprehensive advice on all aspects of FPGA development and create FPGA IP cores according to your requirements. From component specification and project planning to implementation, we are your competent partner throughout the entire project.

```
when DELAY_DETECTION =>  
  if sync_int_delay_cycles_int /= 0 then  
    sync_int_delay_cycles_int <= sync_int  
  else  
    main_control_state <= DETECTION;  
    detection_cycles_int <= unsigned(det  
  end if;
```

```
when DETECTION =>  
  detection_enable <= '1';  
  if detection_cycles_int /= 0 then  
    detection_cycles_int <= detection  
  else  
    main_control_state  
    detection_guard_cycles_int <= unsi  
  end if;
```


FPGA DESIGN DEVELOPMENT

Leveraging our extensive experience and know-how from cutting-edge high-tech projects, we are your expert partner at every stage of FPGA development. Depending on your needs, we create component descriptions, implement already formulated specifications, incorporate standards from the IEEE or other consortia, and make necessary adjustments to your products.



VHDL programming and the corresponding verification may involve individual function blocks (IP cores) or an entire design. We specialise in applications from the following areas:

- Signal processing
- Data transmission
- Data processing
- Protocol implementations
- Controls
- Standard adaptations
- Bus systems
- Algorithms

SOFTWARE DEVELOPMENT

Even in the field of software development, we offer sophisticated solutions to optimise your products. As a complement to the hardware we develop for you, you will receive a software interface tailored to your needs.

If you have any questions about our services related to software development or if you would like a non-binding quote for development, simply contact us – we look forward to your inquiry!



WITH US BY YOUR SIDE

OUR FOCUS INDUSTRIES

Many of our customers operate in the Automotive, Industry, Caravaning, and E-Mobility sectors – and we take pride in supporting them with our industry expertise.

As a supplier, service provider, and high-tech developer, we accompany the entire product life cycle, combining industry-specific know-how, consistent performance, and innovative solutions to be the best partner possible.



Our drive lies in developing groundbreaking solutions that ensure customer satisfaction.

CONTACT US

+ 49 531 210 58 - 600

OUR CONTACT

VISIT US IN BRAUNSCHWEIG

Two Locations – One Team! You can find our headquarters at the port of Braunschweig with easy access via the motorway. Our R&D department is conveniently located in the heart of Braunschweig as well.

Do you have questions about how to get here? Contact us anytime – we look forward to your visit!



HEADQUARTER

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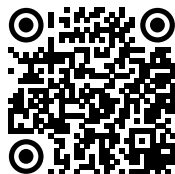


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Caravaning Industrie Verband e.V.



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TISAX

IFU-CERT
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ISO 9001:2015