

What can we do for you?

Research

The lion's share of our experience and expertise lie in the field of applied research. The term *applied* involves all aspects bringing state-of-the-art research results into a product. Our applied research experience includes a wide range of subjects. Ways we may collaborate on include:

- Research
- Simulation
- Evaluation
- Optimization

$$W^+ = \frac{E\{XX^H\}^{-1} E\{Y^* \hat{Y}^z X\}}{2E\{|Y^z|^2\}}, \quad (18)$$

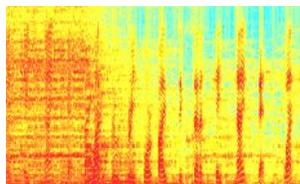
$$W = \frac{W^+}{\|W^+\|_2}. \quad (19)$$

The results from our research collaboration may be delivered as a research report, a white paper, or it is directly formed into a product specification. In any case, You determine the rules for the research collaboration!

Signal processing

We have been active in the field of applied signal processing since 1999. Our focus on actual solutions enable us to contribute in many different areas. Example areas include:

- Single-sensor processing
- Multiple-sensor processing
- Time-frequency analysis - filterbanks
- Spatial filtering - beamforming
- Digital filter design - temporal/spatial
- Supervised adaptive filtering

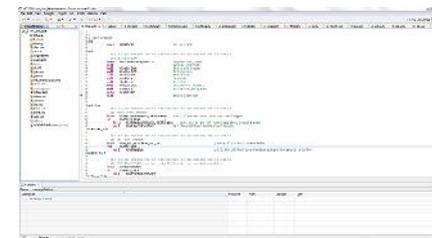


- Unsupervised (blind) adaptive filtering
- Optimal signal processing
- Second and higher order statistical signal analysis
- Image processing and enhancement
- Principal component analysis
- Independent component analysis

Software development

We may support You in any stage of the software development cycle. We can help you at any stage of your product development cycle relating to signal processors and microcontrollers. Examples of our software services include:

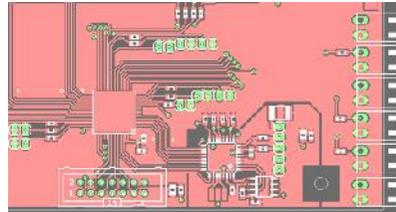
- Implementation on digital signal processors/microcontrollers
- Development of low-level core drivers in Assembler or C
- High-level code and frameworks in C or C++
- Optimization of code
- Porting between platforms
- Translation of algorithms from floating-point to fixed-point
- Support in digital signal processors and micro-controllers in general



What can we do for you?

Hardware design

We may offer our services in electrical circuits and systems design. Our experience in mixed signal multi-layer circuit board design has been verified in a range of applications and products. We use Cadsoft Eagle to construct our designs while it has been proven a light-cost, yet extremely powerful and flexible tool for multi-layer PCB-design. Other PCB CAD and layout software are indirectly supported through file format conversion.

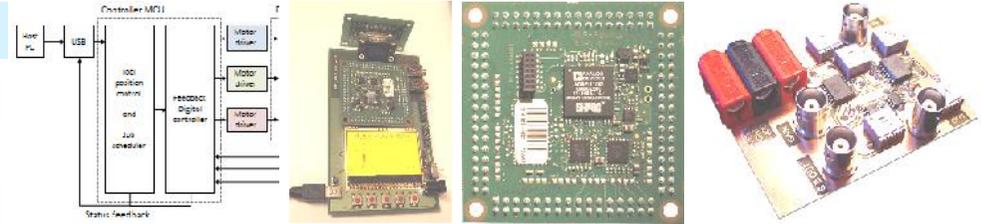


We have designed circuit boards ranging from sensitive signal recording equipment, to USB- and Bluetooth interfaces, high- as well as low-performance signal processor based boards. We have experience in analog circuitry as well as digital, and mixed analog-digital circuits.

Prototyping

We are experts in the field of prototyping; to propose a solution to Your product idea in the form of a prototype. This allows you to hold a prototype with close-to production functionality in Your hands. Getting the feeling of what the end-user will feel and experience will certainly help attract interest from Your target audience. It can also be used as a step to refine and fine-tune the product idea before the next steps towards the market.

Our prototypes can be equipped with user interfaces, and USB or Bluetooth connectivity, audio recording or playback, should You require it.



Other business areas?

Please contact us to inquire if other business areas may apply.

Company information

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