

# Company Profile



**Algorithmix GmbH**  
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[www.algorithmix.com](http://www.algorithmix.com)

# Company Profile (1)



Algorithmix, founded in 1996, employs experienced professionals having broad expertise in digital audio, psychoacoustics, digital signal processing, electronics, as well as computer hardware and software.

The main business of the company is licensing of high-end, artifact-free, real-time DSP algorithms for customized digital audio processing systems such as:

- Digital audio workstations
- Mixing consoles
- 19" audio processing and effect devices
- Acceleration boards for PC
- Broadcast systems
- Audio for film and video
- Native audio PlugIns for PC & MAC audio editors
- Networked sound reinforcement systems
- Digital music instruments
- Historic audio digitization, restoration, and archiving



Algorithmix has also successfully undertaken large-scale projects for professional audio and multimedia industry delivering the full range of services.



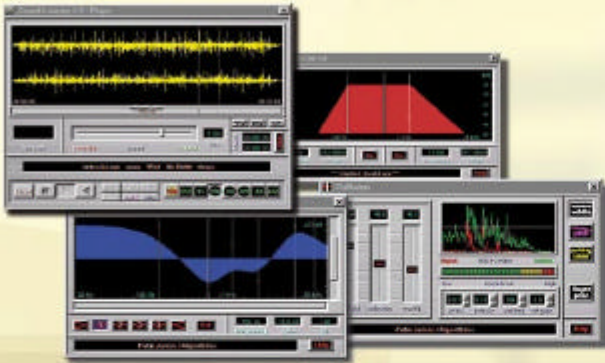
Such services contain product concept, definition and design, DSP hardware development including layout and FPGA design, audio interface development according to the 24-bit/96-kHz standard, DSP and uP software development, product engineering, documentation, and finally implementation of mass production.





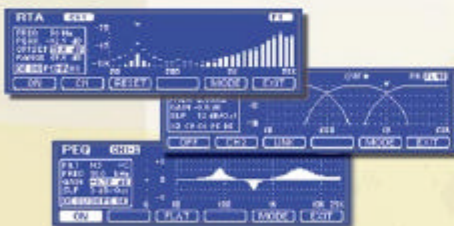
# Company Profile (2)

Algorithmix has also ventured extensively into the native PC multi-media market, supplying professional audio processing tools at user-affordable prices, such as the world famous restoration toolset **Sound Laundry**.



## Services offered by Algorithmix include:

- Development of multiprocessor hardware and software for real-time audio and video applications
- Licensing of low-noise real-time digital signal processing algorithms for digital audio and sound synthesis for DSPs and general-purpose computers (PC, Mac)
- OEM signal processing products: concept, design, development, engineering, preparation for mass production



- Digital audio equipment based on multi-SHARC architecture: 19" audio processors, mixing consoles, DSP effect and acceleration boards
- Remote software for networked audio
- Real-time audio processing Plugins for DirectX
- Audio restoration and signal de-noising systems for remastering, archiving, film, forensic applications
- Audio interfaces: high-end AD/DA converters for 24-bit/96-kHz standard, sampling rate converters, digital interfaces (AES3, SPDIF)
- Low-cost DSP (Blackfin) audio boards

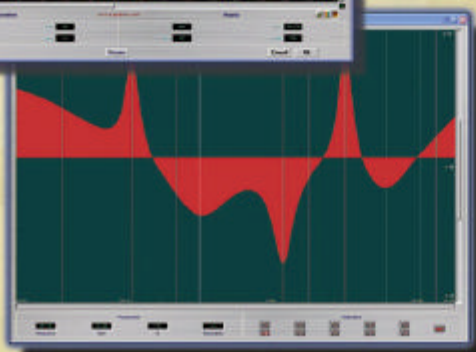
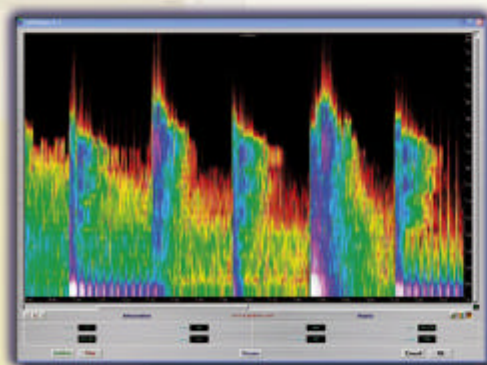
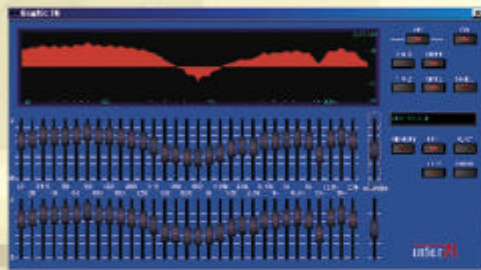
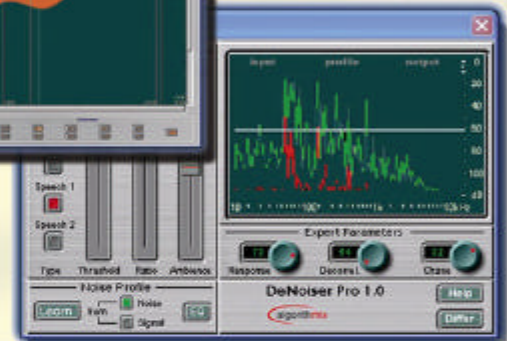
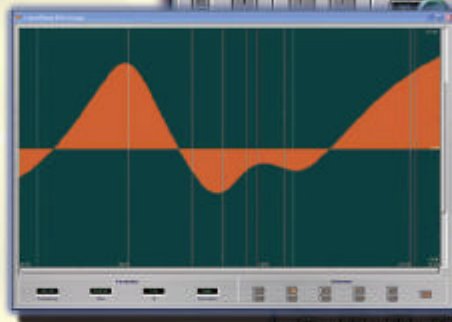
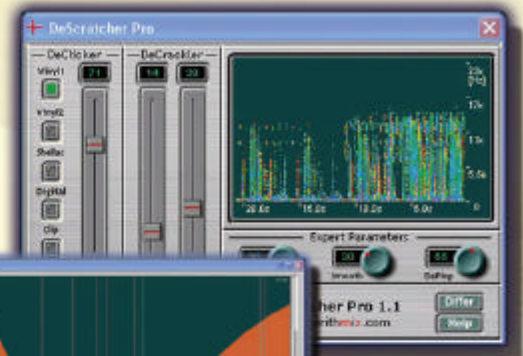




# Company Profile (3)

## List of available algorithms:

- o Linear-phase equalizers
- o Low-noise multiband parametric equalizers
- o Low-noise graphic equalizers
- o Low-noise notch and cut filters
- o Multiway crossovers for loudspeaker management systems
- o Reliable peak-limiters
- o Noise gate/compressor/expander/limiter for mastering and recording
- o Multiband dynamics



- o Multichannel reverberation and room simulation
- o Modulation effects like chorus, flanger, phaser, rotary loudspeaker
- o Sound restoration tools
- o Various sound synthesis modules
- o 3-D spectral correction tool for repairing complex audio signals
- o MP3 player
- o Spectrum analyzers
- o Audio level meters
- o Signal quality analyzers (high-volume audio digitization for archiving purposes)

All algorithms with clickless parameter update and sampling frequency up to 384 kHz.