



DSP@NEST

NeST has an experienced team of dynamic and talented group of professionals with knowledge and skill in DSP algorithms and platforms. NeST has developed software solutions and consultancy for multiple customers in multimedia, control and aerospace domain.

The expertise includes development of algorithms for audio, video and image applications for different target platforms. The team has also implemented DSP controllers, including second-order PID control, multi-loop control, planar and linear interpolation and motion profiles. The team has experience in following DSP processors and IDEs:

- ADSP21xxx
- Motorola 56k
- Hitachi MAP-CA
- Tasking EDE
- AD Shark development system

PROJECT SNAPSHOTS

ADSP21061 based data system

- High speed data acquisition
- Optimized Motion detection and estimation
- Sends back the processed data back to the server

ADSP 21062 based multi-loop controller

- Fault-tolerant robot with five degrees of freedom
- Optimized PID algorithm

ADSP 2101 based spectrum analyzer

- 10 to 240 bars in the audible frequency range from 10 Hz to 22 kHz.
- Dual input
- Frequency/Time/phase Calibration
- Sine Wave, 5 to 22kHz
- Vibration profile outputs to vibration controllers as per MIL standard

Motorola DSP 56004 based fixed-point Audio decoders

- WMA decoder as per Microsoft specification
- MP3 multi-channel audio decoder as per ISO/IEC 13818-3
- AC-3 Dolby decoder as per ATSC 52/A

MAP-CA VLIW processor based MP3 encoder

- Audio encoder for fixed-point core of MAP-CA as per ISO/IEC 11172-3
- Fixed-point implementation of psycho-acoustic model
- Tested for ISO/IEC 11172-4

For more information on NeST's service offerings, please contact:

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