

# EXPERT SYSTEMS AND SOLUTIONS

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## DSP Project Titles

1. 3D Synthetic Environment
2. A High Performance Implementation of MPEG-1 Layer 3 Audio Encoder
3. AC drive
4. Acoustic Echo Cancellation algorithm & Implementation Using DSP
5. Acoustic liquid level gauge
6. Adaptive channel equalization
7. Advanced LCR meter using DSP techniques
8. ALU design using VHDL
9. Audio signal processing
10. Automatic collision avoider
11. Binaural sound localization
12. Biologically plausible pitch perception
13. Biometric finger print system
14. Biometrics smart camera
15. Cellular communication simulator by using MATLAB
16. Channel Implementation
17. Character display
18. Class 5 accuracy data actuation
19. Cochlea Implants
20. Command and control using voice recognition
21. Counter design
22. CPU design
23. Data compression
24. Data transmission through power line
25. Delta modulation
26. Detection of Human Speech in Structured Noise
27. Digital AC Motor Control
28. Digital Scanner
29. Digital signal processing aid for labs
30. Digital signals processing demonstrator
31. Doppler correction
32. DSP based data acquisition system
33. DSP based digital equalizer
34. DSP based ECG monitor
35. DSP based image processing
36. DSP based karaoke system
37. DSP based medical announcement system
38. DSP based modems

- 39. DSP based multi channel monitoring system
- 40. DSP based signal analyzer
- 41. DSP based voice transmission system
- 42. DSP function generator
- 43. DTMF code generator & detection
- 44. Error correction coding using convolution encoding and VITERBI decoding
- 45. Error correction coding using trellis encoding and VITERBI decoding
- 46. Estimation of aircraft trajectory from its motion using KALMAN TRACKING FILTER
- 47. Estimation of energy using sub band coding
- 48. FFT design
- 49. FIR & IIR filters design
- 50. FSK modulation & demodulation
- 51. Function generator

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