

Miles Technology Design Engineering

Michael T. Miles, Principal Engineer

Summary of Services

- ★ Electronic design engineering
- ★ Product, system, and/or sub-system design
- ★ Construction, testing, and evaluation of prototypes
- ★ Project engineering; coordination of projects with mechanical design, programming, manufacturing
- ★ Projects ranging from small technical reviews or analyses to complete product designs with full documentation and technical support

Areas of Specialty

- ★ Analog circuit design
- ★ Linear and switch-mode power amplifiers
- ★ Linear and switch-mode power supplies
- ★ Audio circuit and audio product design
- ★ Designs for 12V and automotive systems
- ★ Digital interfacing and control circuits
- ★ Circuit board design for high performance and economical manufacturability

Services Offered

Design:

Electronic Circuit Design
Printed Circuit Board Design
Packaging and Mechanical Design
Performance and Cost Optimization
Component Specifications
Manufacturing Cost Analysis
Reverse Engineering
Test Fixtures
Technical Support

Build:

Prototyping
Test Fixtures
Component/Subassembly Procurement
Contract Manufacturing Procurement

Evaluation:

Design Review
Analog and/or Audio Lab Testing
Technical Liaison for UL/CSA/NRTL/CE/FCC
Manufacturing Quality
Troubleshooting and Problem Solving

Documentation:

Manufacturing Documentation and Data Files
Technical Specifications and Drawings
Technical Reports
Test Specifications and Procedures
Operation and Service Manuals
Graphic Design
Technical Writing

Software

TINA/Pspice (circuit analysis), Eagle (PCB design), AutoCAD/IntelliCAD (mech. design), Corel Draw, Quattro, MS Office, WordPerfect, and more. Can support numerous file formats.

Credentials

28 years of professional design experience with both large and small audio manufacturers, BSE(EE) in Electrical Engineering (University of Michigan), specialty in circuit design and acoustics, authorship of technical papers and articles, one U.S. patent, over 15 years as independent engineering consultant.

Current and Past Clients Include:

Crown International, Atlas Sound, Hose-McCann Communications, Lor Manufacturing, Custom Radio Corp., Cytech Labs, Pro-Co Sound, Whirlwind, Community Pro Loudspeakers, EAW, Electro-Voice, ETS, Hamilton, TouchTronics.