



James Weber Consulting

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James Weber Consulting brings over 12 years of software development expertise to a wide range of projects, from award-winning digital audio applications to cutting edge medical device research.

JWC's additional expertise in branding and creative media production gives us a unique perspective on software development, particularly in creative content domains.

We can assist with any phase of software product development:

- Architecture and Design
- User Interface Design
- Implementation and Testing
- Project Management
- Product Definition
- Marketing
- Technical Writing

Areas of expertise:

- Digital Audio
- Media Production and Delivery
- Encryption and Smart Cards
- Implanted Medical Devices
- Distributed Systems

Languages and tools:

- C/C++, Objective-C, Java, PHP
- SOAP, COM, XML
- MS Visual Studio, .NET, XCode, Visual Age, Dreamweaver
- UML, Agile Techniques, Patterns
- Real-time systems
- Multi-threaded and multi-process applications
- Network programming from sockets to Web protocols

Digital Audio Technologies:

- Plug-ins: VST, DirectX, Audio Units – experience developing both plug-ins and hosts. Also designed and implemented several proprietary plug-in interfaces.
- ASIO, Core Audio, WDM device support
- Dolby AC-3, DTS, and Mpeg encoding and decoding
- DVD-A authoring and burning

Platforms:

- Windows
- Mac OSX
- OS/2
- Web
- Mobile
- Proprietary Hardware

Continued...



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Projects:

Minnetonka Audio Software – AudioTools™ Suite

Product Manager, Project Manager, and Chief Architect

- Responsible for all aspects of the product line: product definition, architecture and design, project management, implementation and testing, and marketing.
- Developed cross-platform core components, a client-server workflow engine, proprietary DSP functions, support for third-party plug-ins including VST, Dolby AC-3, and MP3 codecs.
- Produce marketing materials and white papers.

IMAX Theaters – Migration to Digital Audio Sound Systems

Consultant

- Developed client-server middleware in conjunction with Digital Audio Labs hardware for controlling IMAX Theaters digital audio sound system.
- Provided a COM interface to hardware mixing and timecode synchronization.

Medtronic – Web-enabled Implanted Devices

Consultant

- R&D work on programming implanted medical devices over the web from PCs and mobile devices.
- Primarily “proof of concept” work to sort out security and stability issues.
- Developed a DHTML and PHP front-end, talking to a Windows web-server, which managed IP enabled programmers in the field.

DataKey – Smart Card Interfaces

Consultant

- Implemented public key encryption interfaces to DataKey’s Smart Cards to support RSA’s PK11 and Microsoft’s CryptoAPI standards.

Minnetonka Audio Software – DiscWelder™

Developer

- Designed and implemented DiscWelder GUI for DVD-A authoring.
- DiscWelder is a TEC Award-winning application.

Minnetonka Audio Software – MX51

Developer

- Implemented third-party plug-in support in this native surround workstation.

Merging Technologies – Pyramix

Consultant

- Developed proprietary plug-in interface for integrating Minnetonka Audio’s SurCode AC-3 and DTS codecs with Pyramix.