

## **Michael A. Eskin**

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### **AREAS OF EXPERIENCE**

Development and Debugging of Windows Kernel Mode Streaming Drivers and Middleware for PCI Express-based VLSI Devices

Digital and Analog Television Broadcast Receiver Driver Software and Reference Designs

C and C++ Programming and Object Oriented Design

Development and Delivery of Technical Presentations and Trainings

OEM / ISV Software Evangelism and Liaison

### **EXPERIENCE HISTORY**

July 1989 to Present

Conexant Systems, San Diego, California

### **DISTINGUISHED SOFTWARE ENGINEER**

20 years of experience focused on the architectural definition and implementation of PCI, PCI Express, and USB-based TV broadcast receiver reference designs, their supporting kernel mode drivers, and middleware for Windows 7, Vista, and XP.

Implemented Consumer Infrared receiver port driver for Conexant CX23888 for use with Vista and Windows 7 Media Center.

Lead architect and software engineer for the "Blackbird" MPEG-2 broadcast receiver reference design for Windows Media Center Edition using the CX23880 PCI broadcast decoder and CX23416 MPEG-2 A/V compressor.

Designed and implemented Microsoft WDM kernel stream class, AVStream class, and Broadcast Device Architecture (BDA) minidrivers for analog broadcast audio/video and digital broadcast data reference designs using Conexant CX23888, CX23880 and Bt878A PCI audio/video decoders.

Primary Conexant software evangelist working with the Microsoft eHome group, focusing on current and future digital broadcast product software architectures for both analog and digital content. Development group's primary representative to WinHEC and other Microsoft-hosted events.

March 1985 to June 1989

Megahaus Corporation - San Diego, California

### **SENIOR SOFTWARE ENGINEER**

Designed and implemented a device and platform independent graphic user interface development environment for the IBM-PC based on the Macintosh toolbox. Designed and implemented WYSIWYG technical publishing and forms design applications on both the Macintosh and IBM-PC for OEM and retail customers. Designed and implemented display managers, window managers, and object-oriented graphic editors. Other responsibilities included product specification, project management, and cost tracking. Delivered in-house seminars on Macintosh programming principles. Represented Megahaus at major industry trade shows.

### **OTHER SKILLS**

Use of PCI and PCI Express bus protocol analyzers, digital oscilloscopes  
Isolating and fixing VLSI hardware bugs through software workarounds.  
Familiarity with MPEG-2 and h.264-based video compression

### **EDUCATION**

San Diego State University  
B.S. in Mathematics, Emphasis in Computer Science, 1983

### **PATENTS**

U.S. Patent #6,727,959 - System of and method for gamma correction of real-time video  
U.S. Patent Application #20070229711 – Comb filter that utilizes host memory  
U.S. Patent Application – Method for Consumer IR carrier frequency detection and decoding

### **CITIZENSHIP**

USA

### **OTHER AREAS OF INTEREST**

Digital Photography and Video Editing  
Toastmasters International – Earned CTM status in 1998  
Traditional Irish Music Instructor for Flute, Whistle, and Uilleann Pipes  
FAA Private Pilot Certificate