

## **Gary M. Koven, C.I.D.**

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### **QUALIFICATIONS IN BRIEF**

- Engineering professional with over 30 years consecutive experience in cradle to grave product development, documentation, support, and continuous improvement
- Direct industry experience includes medical devices, telecommunications, broadcast media, defense/aerospace/military, law enforcement, audio, electricity metering, LED lighting, and RF
- Fully computer literate; business software proficiencies include Microsoft Office plus Visio, Adobe Acrobat/Photoshop; technical software proficiencies include Mentor Graphics PADS Layout/PADS Logic, Cadence OrCAD Capture, and AutoCAD. Core skill areas of excellence include:

Technical Writing • Configuration Management • Change Control • Document Control • CAE Administration  
Printed Circuit Board (PCB) Design/Layout • Schematic Capture • Mechanical Design • Bills of Material  
ISO 9000 Quality Systems • IPC Standards • Design For Manufacturing • User Training • Photography

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### **PROFESSIONAL EXPERIENCE**

#### **2002 to 2009     Engineering Services Manager at DYNAZIGN, Charlotte, NC**

- Manage, support and enhance the Engineering Services environment for a developer and services provider
- Qualify and source components for electrical and mechanical designs, generate bills of material
- Create and maintain EDA libraries for schematic capture and PCB design
- Electrical design of complex multilayer PCBs including schematic capture and PCB design/layout
- Mechanical design of PCB assembly drawings, cables, and mechanical subassemblies
- Write and implement design and operating procedures; train engineers in design and operating procedures
- Photograph components, assemblies, and other objects for incorporation into documents
- Author users manuals and assembly instructions, combining text, tables, graphics and digital photographs
- Prepare consolidated project documentation manufacturing packages, integrated from different CAE sources
- Manage and maintain engineering documentation, engineering change control system, and part numbering
- Procure and track make/buy inventory for diverse product prototype and new product introduction builds
- Liaison with onshore and offshore contract manufacturers for electrical and mechanical board/box builds
- Submit product briefs for UL and FCC agency approval, liaison with agencies throughout certification process

#### **2001 to 2002     Engineering Services Manager at CONVACENT, Charlotte, NC**

- Created, managed, and enhanced the Engineering Services environment for a broadcast media OEM
- Developed, implemented, maintained, and managed Configuration Management system including part numbering scheme, engineering document control, engineering change orders, and engineering logbooks
- Administered network licenses, libraries, configurations, processes, and archival system for EDA design tools used in board-level simulation, schematic capture, component engineering, mechanical and PCB design
- Installed, configured, customized, and deployed multiple electrical and mechanical EDA design tools

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## **1999 to 2001 CAE Applications Engineer at ACTERNA, Research Triangle Park, NC**

- Administered and enhanced the EDA environment for a telecommunications OEM
- Managed and maintained network licenses, libraries, configurations, processes, and documentation for EDA design tools used in IC chip design, board-level simulation, schematic capture, mechanical and PCB design
- Installed, configured, customized, and deployed multiple electrical and mechanical EDA design tools over corporate intranet spanning multiple remote sites to optimize resource allocation and workload sharing

## **1998 to 1999 Operations Manager at PRAEGITZER DESIGN, Research Triangle Park, NC**

- Opened new office and managed local branch operations for an international design services provider
- Hired and supervised design staff; installed and deployed electrical and mechanical EDA design tools
- Quoted, scheduled, designed, and managed PCB design projects

## **1992 to 1998 Senior PCB Design Engineer at NELLCOR, Lenexa, KS**

- Performed design, manufacturing and quality engineering for a medical device OEM
- Designed PCB layouts and associated assembly documentation for multilayer mixed-signal circuits, resulting in CE-mark zero defect product compliant with IPC, ISO 9000, FDA GMP, and international medical safety standards, on or ahead of published schedule
- Served as primary liaison with PCB contract manufacturers to expedite builds by improving manufacturability and quality; audited supplier facilities for ISO 9000 compliance; process efforts resulted in fewer re-spins, cost reductions, and shorter time-to-market through continuous process improvement

## **1982 to 1991 Senior PCB Design Engineer at DIT-MCO International, Kansas City, MO**

- Performed design, manufacturing and quality engineering for a defense and space OEM
- Designed PCB layouts and associated assembly documentation for multilayer mixed-signal circuits used in automatic test equipment (ATE)
- Liaison with factory floor to expedite builds by improving manufacturability and quality; member of Material Review Board (MRB); developed quality analysis (QA) procedures and provided direction to QA personnel

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## **EDUCATION AND PROFESSIONAL ACTIVITIES**

B.A., University of Massachusetts, Amherst, MA (Sociology/Industrial Management), 1975

**Professional Certifications:** C.I.D. (Certified Interconnect Designer), IPC Designers Council, Bannockburn, IL; over 200 formal training hours in ISO 9000 Quality Systems at Praegitzer Design and Nellcor

**Professional Affiliations:** Founding Member, Past Vice President, Current Board Of Directors - RTP Chapter of the IPC Designers Council - <http://ipc-rtp.org>; Active Member - American Mensa

**Prior Positions:** Kustom Signals, Redac Interactive Graphics, General Electric