

William J. Kitchen

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Skills Summary:

- Extensive PCB design experience, including high speed, mixed signal designs with BGA and micro-BGA packages, embedded capacitance, LVDS, DDR memory, gigabit ethernet, etc.
- Good understanding of manufacturing, test, signal integrity, and EMC considerations for PCB's
- Good electronics background, both digital and analog, and some microcontroller programming
- Excellent general computer skills, including some programming, networking, and systems administration
- Extensive P-CAD 2002 experience, including DBX
- Extensive AutoCAD experience, including AutoLISP

Employment History:

Senior PCB Designer

AMX Corporation -- Richardson, TX

469-624-8000; <http://www.amx.com>

May 2000 - Present

- designed PC boards ranging from low-cost two layer designs to 16 layer designs with controlled impedance, embedded capacitance, micro BGA's, complex design rules and tight mechanical constraints
- wrote utility programs to automate common PCB related tasks such as comparing a schematic BOM against a BOM in an external database
- built components for PCB and schematic libraries
- helped define and document company standards for schematics and PCB designs
- created panelization drawings, assembly drawings, and fab drawings
- primary tools are P-CAD2002, Specctra, AutoCAD, and VB6

System Administrator

Internet Global Services, Inc. -- Dallas, TX

September 1996 - March 2000

- served as local system administrator for the Midland, TX point of presence for over 2 years
- served as a member of the system administration team in the company's Dallas headquarters
- provided technical support for dial-up, ISDN, T1 and DSL customers
- designed customer web sites

Engineer

Jacobs Electronics -- Midland, TX

800-627-8800; <http://www.jacobselectronics.com>

August 1992 - April 1996

- developed microcontroller based automotive ignition products
- designed PC boards with many high voltage & high current considerations
- wrote firmware for PIC microcontrollers (16C5x, 6x, 7x families)
- built and tested prototypes
- created AutoCAD drawings for enclosures, panels, extrusions, and labels
- served as System Administrator for the company's Netware based LAN prior to moving to the R&D dept.

System Administrator/Drafter
Isoduct Energy Systems -- Midland, TX

July 1990 - August 1992

- managed a small Novell Netware based LAN
- wrote a client/server database application for tracking and documenting jobs in progress
- created over 100 AutoCAD drawings for the company's extruded aluminum electrical raceway products
- created several new aluminum extrusions that became part of the company's product line
- created catalog sheets, spec sheets, and other documents

Jr. Engineer/PCB Designer/Drafter
VME Development Corp. -- Tucson, AZ

October 1987 - April 1990

- helped develop computer products for the VME Bus
- designed 2 to 8 layer PC boards with through-hole and SMT components
- programmed PAL/GAL devices
- built and tested prototypes
- created AutoCAD drawings for mechanical assemblies, panels, and illustrations
- primary tools were Orcad SDT, Protel AutoTrax, AutoCAD
- gained a good understanding of microprocessor bus interfacing

Drafter/Programmer
Midland Geophysical -- Midland, TX

September 1984 - July 1987

- digitized base maps and plotted shot points, oil wells, ownership, and other data using AutoCAD
- digitized well log data
- wrote programs in AutoLisp and BASIC to automate drafting, well log digitizing, and data conversion tasks

Electronics Technician
KW Electronics -- Midland, TX

July 1980 - December 1983

- assembled, tested, calibrated, diagnosed, and repaired electronic gas leak detectors