

CHRIS DEWITT
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SUMMARY

Innovative, results oriented electrical engineer with experience in embedded systems analog, digital and microprocessor hardware design, design for electromagnetic compatibility (EMC) and Electrostatic Discharge (ESD). Background includes work in precision measurements, voicemail, automotive, radio positioning, navigation systems and medical electronics. An experienced engineer with strengths in leading the full scope of hardware design projects from concept to production.

PROFESSIONAL EXPERIENCE

Hospira, Lake Forest, Illinois 2012 to Present

The world's leading provider of injectable drugs and infusion technologies

Principal Engineer

Electrical engineer working on the Plum and Symbiq infusion pumps

- Responsible for EMC testing of the Plum pump during remediation.
- Solved RF Immunity and ESD problems in Hospira's infusion pumps.
- Successfully ran testing program to prove the reliability of an infusion pump battery.

Baxter Healthcare, Round Lake, Illinois 2005 to 2012

A leading supplier of IV therapies, pharmaceuticals and biotechnology.

Sr Principal Engineer, Electromechanical Systems

Electrical engineer working on the Colleague Large Volume Infusion Pump and Isolex 300i blood cell separator systems.

- Technical contributor to the design History File (DHF) remediation of these systems.
- Led EMC and ESD investigation and mitigation work.
- Led or assisted in failure investigations and product support.

Motorola

A leading company in the design and manufacture of tier one automotive and telematics systems.

Distinguished Member of the Technical Staff (2002-2005)

Principal Staff Engineer (1997-2002)

Contributed to the design of advanced platform modules for telematics applications such as GM Onstar.

- Lead investigator for automotive and telematics EMC problems.
- Active participant in peer reviews for general and EMC design issues
- Promoted the use of rule based software to analyze PC Board layouts for potential EMC design issues.
- Decreased design import time for Quiet Expert software from 6 to 10 hours to 30 minutes.
- Designed test platforms used to evaluate microprocessors for use in telematics applications.
- Wrote the EMC test specifications for telematics products.
- Participated in generating proposals for potential GM business.

Principal Staff Engineer, Northbrook, Illinois (1995-1997)

Team member in the development of the CM570 diesel engine controller for Cummins.

- Successfully designed a 27,000 gate array in less than six months including learning all necessary tools.
- Wrote and implemented the EMC test plan for the CM570 diesel engine controller.
- Led design for EMC and took part in testing, investigation and mitigation of EMC issues.

Chris DeWitt

Principal Staff Engineer

(1990-1995)

Lead hardware engineer for the development of the Intelligent Vehicle Highway Systems (IVHS) in vehicle navigation system.

- Led hardware design efforts in developing an automotive grade navigation system.
- Directed 2 engineers and a technician with dotted line direction of a second design group.
- Coordination of all design work, including scheduling, sourcing, testing, coordination with factory.
- Acted as the technical liaison between Motorola, Ford and Alpine.
- Wrote all test specifications and designed the necessary hardware to fully test the system to meet OEM automotive specifications.
- Solved EMC compliance issues to meet Ford test specifications.

Engineer under Contract to Motorola

(1988-1990)

User Interface design for Ford engine controller calibration console.

- Designed user interface for engine controller calibration console.
- Wrote software to run on an IBM PC to emulate functions of the user interface.

Voice Computing, Madison, Wisconsin

Vice President of Technology

1985 to 1988

Directed all aspects of hardware engineering for a startup company supplying small business voicemail solutions including, directing engineering personnel, creating the documentation system, directing purchasing, technical liaison with a contract manufacturing company and with the developers of a hardware test system.

- Designed all hardware for an IBM PC based voice mail system.
- Worked 90 hour weeks to get the job done.

Norland Instruments, Fort Atkinson, Wisconsin

Design and manufacturer of digital measurement systems and electronics for the healthcare industry.

Project Engineer

(1983-1985)

Develop hardware to demonstrate the concept of a satellite based positioning and communications system under contract to Geostar Corp., Princeton NJ.

- Concept to working system in less than 6 months.
- Designed, built and delivered all base station and transponder hardware.
- Acted as technical coordinator for Norland Instruments and two other contractors on the project.
- Diagnosed and found solutions for several system level problems.

Project Engineer

(1974-1983)

Led the development of Norland Instruments line of digital oscilloscopes

EDUCATION

BS Electrical Engineering, Michigan Tech University, Houghton MI

PROFESSIONAL AFFILIATIONS

Senior Member of the Institute of Electrical and Electronic Engineers
Member of the IEEE EMC Society

TECHNICAL SKILLS

Analog, Digital, Interface and Embedded Microprocessor design
Design, investigation of and mitigation for Electromagnetic
Compatibility and Electrostatic Discharge problems

Chris DeWitt

Experience in precision measurements, local loop telephone, voicemail, automotive electronics, radio positioning, navigation systems and medical electronics