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Chemical Process Consultant
Litigation Consultant/
Expert Witness

LITIGATION CONSULTANT and **EXPERT WITNESS** with significant experience in all phases of patent life cycle: invention, prosecution; licensing; and infringement litigation. Technical expert in multiple technologies. Inventor of 17 US patents. Significant involvement in prosecution. Experience in marketing and licensing of those patents. Experience in Markman, infringement, and validity phases of patent litigation. Strong presentation skills in interview, deposition, and testimony; excellent writing skills. Excellent analytical capability; deep understanding of patent law and process; ability to bridge technical and legal issues.

Inventor: 17 patents AI in process control;

Architect: Two real-time software systems for AI in process control of chemical manufacturing.

Experience with these Key Technologies:

Artificial Intelligence – Neural Networks and Expert Systems

Computer Systems Design User Interface Chemical Processes

Web Site Development Data Processing Real-time Control

Chemical Process Control Simulation

Litigation Tasks Performed:

Preparation for Markman hearing Preparation of validity arguments;

Federal Court tutorial Testimony at Markman hearing

Deposition as fact witness Deposition as expert witness.

Infringement analysis and report Invalidity analysis and report

2 Days training w/ consultant for jury trial testimony

Prosecution Tasks Performed:

Invention identification Prior art analysis

Claim drafting Specification drafting

USPTO prosecution Foreign prosecution

LITIGATION EXPERIENCE

Litigation Consultant and Expert Witness – Pavilion v Emerson 2006-2008

Primary Infringement Expert – Performed infringement analysis and wrote expert report

Primary Validity Expert – Analyzed opposing validity report and wrote expert rebuttal

Consultant to Markman phase – Analyzed issues and testified at Markman hearing

Consultant to preparation of summary judgment motions

Deposed as both expert witness and fact witness – 3 depositions, 3.5 days total

Litigation Consultant and Expert Witness – Pavilion v Computer Assoc 2002-2004

Member of team preparing arguments for Markman phase

Presented tutorial for Master in Federal Court

Testified at Markman hearing

Deposed as both expert and fact witness – 3 depositions, 4 days total

PATENT EXPERIENCE

Patent Licensing; Consultant, DuPont Engineering

1995-2002

Marketed and licensed 17 US patents of my invention. Presented technology and software in licensing approach to manufacturing and computer companies across US and Canada. Participated in final license negotiations.

Invention and Patent Prosecution: DuPont Engineering & Info Systems 1986-1995

Invented and developed into production software numerous systems and methods for utilizing artificial intelligence in manufacturing control. Proposed and guided the filing of 18 US patent applications and numerous foreign counterparts. Drafted specification and claims and prosecuted these by interview and responses in USPTO.

SELECTED TECHNICAL ACCOMPLISHMENTS

AI Control Software Systems: Invented, designed, and implemented two 24/7 manufacturing software systems: PACE, which integrated expert systems in a novel way into chemical process control; and ASPECT, which built neural network models by extracting time correlated data from process data systems, then embedded those models in real-time controls.

Improved Chemical Plant Controls – Developed and implemented numerous new control strategies to improve the stability of chemical manufacturing plants and reduce cost of manufacture.

Dynamic and Steady State Simulations – Developed simulations of many chemical process plants, both dynamic and steady state. Created control and process designs.

Intranet Report Database – Conceived, designed and implemented an intranet browser-based report collection system used to collect and retrieve progress reports for a 400-consultant organization, with active server pages overlaying a relational database.

Program design and coding: Programming experience in a wide range of computer languages:

Visual Basic	VBScript	Java	SQL
HTML	Excel Macro	VMS DCL	
Fortran	Pascal	Univac CTS	

Computer Platform and OS: Experience programming and operating numerous operating systems and platforms from 1970s through today:

Windows	Macintosh	Vax/VMS	PDP/11	Univac CTS	Cray
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EMPLOYMENT HISTORY

Litigation Consultant and Expert Witness		2002-Present
Author/Publisher/Consultant	Dalkeith Press, Inc.	2004-Present
Consultant	DuPont Engineering – Process Control	1996-2004
Sr. Consulting Engineer	DuPont Engineering – Process Control	1994-1996
Sr. Specialist	DuPont Info Systems – Manuf Software	1993-1994
Sr. Engineer	DuPont Chemicals – Control Support	1991-1993
Specialist	DuPont Artificial Intelligence Task Force	1987-1991

Sr. Area Engineer	DuPont Petrochemicals – Manufacturing	1984-1987
Engineer	DuPont Petrochemicals – Process R&D	1982-1984

EDUCATION

MS Chemical Engineering, Michigan State U, 1981

BS Biochemistry, Michigan State U, 1978

Graduate Certificate Sport Psychology, Capella U, 2004

Registered Engineering Intern, State of Delaware - 2007