Resume of

Richard E. Hawkins, Esq.

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Education:

1994-present, Iowa State University, Ames, Iowa; Joint Ph.D. in Economics & Statistics. Fields in Industrial Organization, Law and Economics, and Econometrics. GPA: 3.1/4.0

1997, Experimental Economics Workshop, University of Arizona.

1987-1988, California Western School of Law, San Diego, California; GPA: 83/95.

1982-1986, University of Santa Clara, Santa Clara, California; B.S. Physics, Math & Philosophy Minors; GPA: 3.0/4.0.

1978-1982, Bellarmine College Preparatory, San Jose, California; GPA: 3.8/4.0.

Test Scores: GRE: Verbal 730, Quantitative 800, Analytical 800, Economics 780; LSAT: 46/48; SAT: Verbal 720, Math 780.

Licenses:

California State Bar Association, 1989-present.

Nevada Bar Association 1989-present.

Apple Certified Software Developer 1989-1991.

Academic:

Iowa State University, 1997-present: research assistant. Developed computational methods for optimization of recursive equations related to breeding and production, using second order methods, genetic algorithms, dynamic programming, multiple shooting, and miscellaneous methods.

Iowa State University, 1994-present: instructor and teaching assistant. Taught and assisted in classes from freshman through masters level, including independent laboratory sections at senior and masters level, and substitute lecturer at all levels.

University of Santa Clara, 1984-1986: Department of Physics, Department of Mathematics, departmental tutor and grader.

Commercial:

Law Offices of Richard E. Hawkins, June 1989-present: Owned and operated general practice of law, and development of legal software. Emphasis on antitrust and other legal issues.

EdTech, 1997-98: Linux and networking consultant for educational networks.

Olivetti ATC, 1984-1985: Software Quality Assurance Consultant, developed and executed procedures testing CP/M 86 and MS-DOS operating systems.

Vidcom, Inc., 1983-1984: software consultant, adapted of previously developed software system to minicomputer.

Vidcom, Inc., 1982-1983: Vice President and Programmer; developed MIS system to monitor and evaluate remote video games, general management.

Awards and Honors:

Graduate School: PACE Award (Premium for Academic Excellence)

Law School: Full Scholarship; American Jurisprudence Award; Editor-in-Chief, *Commentary*; Dean's List.

College: Dean's List; Jesuit High School Scholarship; University Honors Program.

Papers:

"Dynamic Programming Over a Continuous and Disjoint Mulitdimensional Search Space With an Infinite Time Horizon," Computing for Economics & Finance '99.

"Antitrust Considerations of Microsoft's Integrationof Internet Explorer and Microsoft Network Into Windows 95."

"The Use of a Genetic Algorithm to Find Short Term Stragegies in the Dynamic Single Good Market."

Current Research:

Optimal breeding selection for quantitative effects in the presence of polygenes, allowing an increase in yield for the same herd.

Dynamic programming on multidimensional disjoint search spaces.

Tactics for price setting in competitive markets with imperfect information, using Genetic Algorithms and other methods. Appropriate for modeling posted price markets, such as grain elevators.

Antitrust law and pricing when marginal cost is negligible, as in the Microsoft litigation.

PIRHANNA cooperation/punishment game, with Dan Ashlock, et. al.

Research Agenda:

Computational methods and game theory. Investigation of methods to solve high or infinite dimensional games. Applications to competitive and oligopolistic markets. Effects of search and transaction costs on solutions and optima.

Optimal mixing of economic experiments and computational models.

Economic and antitrust theory regarding intellectual property. Effects of minimal marginal costs on traditional and modern models.

Third and higher order tensors in econometric models. Benefits and costs of higher dimensionality.

Computational optimization. Applications to models which leave features out due to numerical intractability. Models in which the Bellman equations cannot be written, and in which derivatives do not exist in closed form.

Health insurance model based on enhanced competition through improved information, using standard reference policy, portability with inter-insurer indemnification, and statistical limits on reimbursement levels, permitting full or partial nationalization of health care through standardized policies without loss of market advantages.