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Registered Patent Agent

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Goal

To apply my extensive experience as a patent agent and technical writer to drafting and prosecuting patent applications for software, the internet, telecommunications, semiconductors, electronics, computers, biomedical technology, biometrics, mechanical inventions, business methods, and similar. Also seeking to branch into re-exam, litigation support, IP licensing, IP valuation, and related areas.

Primary Qualifications

- Licensed as a patent agent with the USPTO (Registration No. 57,418)
- Three-and-a-half years experience as a patent agent, drafting and prosecuting patent applications.
- Over fifteen years of experience in technical writing for users guides, technical specifications, and references manuals, making complex technical matters clear and accessible.
- Skilled in graphics and illustration.
- Experience with diverse electronics (digital and analog) and software technologies including: signal processing systems; telecommunications systems and protocols; biomedical technologies; computer graphics; several programming languages; simulation systems.
- Educational background in physics, programming, math, and electronics.

Patent Work

Sterne, Kessler, Goldstein, and Fox PLLC (April 2006 - October 2009)

Drafted and prosecuted patent applications before the USPTO on behalf of numerous clients in the fields of telecommunications, simulations, biomedical technologies, biometrics, electronics, software, microprocessors, finance, and other fields. (SKGF has laid off several people due to slow-downs in work from a variety of clients, including several clients I supported.)

- Engaged in extensive interviews with inventors
- Conducted interviews with PTO examiners
- Drafted and filed pre-appeal briefs on behalf of applicants
- Supervised paralegal and secretarial staff for filings of IDSs and other case-related matters

Drafted approximately two dozen patent applications. Sample applications include:

- **Telecommunications:** Applications directed to RFID technologies and network management.
- **Biomedical and Biometric technologies:** Applications directed to various improvements of / enhancements to implantable cardiac therapy devices; applications for fingerprint sensors.
- **Electronics:** Applications directed to microprocessors, simulation environments, component-level (i.e., transistor-level) electronics, patient-implantable batteries, and graphics processing.
- **Miscellaneous mechanical applications, business methods applications**

Drafted amendments and replies, and obtain allowances, in support of numerous applications. Subject matter domains of applications included:

- Wireless network communications security and integrity
- Cable communications systems
- Microprocessor architecture and operations
- Optical systems for biometric sensors
- Signal processing systems
- Component-level (e.g., transistor) electronics
- Electronic system timing and synchronization systems

Contract Technical Writing, 1990 - 2005 (Partial Client/Project List)

- **Cognio, Gaithersburg, MD (acquired by CISCO)**

Cognio was a start-up company developing software and hardware for WiFi. Wrote reference manuals for *Spectrum Expert*TM, a set of hardware- and software-based tools to monitor the RF spectrum in bands which impact wireless LANs. Created users guides, online help, design specs, software and hardware functional specifications. Also provided documentation in support of an advanced RF chip design which incorporated cutting edge MIMO technology.

- **JDS Uniphase Corporation, Germantown, MD (formerly Acterna)**

Authored documentation for *AirAudit*, a testing system design to monitor the performance of cellular networks. Wrote the *Remote Control Chapter* for the *FIREBERD 4000 Reference Manual*; this device measures the performance of digital communications networks.

- **JDA, Rockville, MD (formerly Manugistics)**

Created functional specifications, reference manuals, and online help for commercial software used to route and schedule trucks for delivery of goods in the most efficient and cost-effective manner possible. The functional spec provided extensive illustrations of the GUI for the program, and offered detailed descriptions of user interactions and use cases.

- **CIENA Inc., Columbia, MD**

Documented *WaveWatcher*, software which monitors switching nodes and amplifiers in a communications network. Included both extensive system architectural descriptions, and detailed operational procedures. Documented business/engineering procedures for ISO-9000 certification.

Science Journalism

- Feature articles on science for popular audiences in *Science Digest Magazine*.
- Former member of the Review Board of *InfoWorld*. Reviewed well-known software (MathCad, Quicken, FrameMaker), for ease of use and appropriateness for business use.

Technical Knowledge

- **Technical Background:** Knowledge of physics, math, electronics, telecommunications. Basics of chemistry, biology, statistics, finance, and other subjects.
- **Computer Languages:** C++, MFC, Visual Basic, Java, HTML, FORTRAN, MS Access, SQL, XML, fundamentals of Verilog.
- **Applications:** Microsoft Office (Word, Excel), VISIO, Microsoft Visual Studio, FrameMaker, PaintShop Pro, numerous other utilities and applications.

Education

- **M.A. in the Liberal Arts** from St. John's College in 2002, with studies in philosophy, theology, literature, politics and society, and the history/philosophy of science.
- **B.A. with Distinction** as a College Scholar from Cornell University in 1982. Studies emphasized physics, math, and philosophy.
- **Continuing Education:** Certificate Degree in Programming from Montgomery College in 2002, with studies in C++, Visual Basic, Java, SQL. Studies at various colleges in advanced math (linear algebra, differential equations, complex analysis, statistics), electronics (digital logic, circuit fundamentals), chemistry, biology, accounting.

Professional Society Memberships

IEEE; American Intellectual Property Law Association; Society For Technical Communication