Steve R. White

Whitespace Associates
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Curriculum Vitae

Professional Experience

2013 -
Present

Whitespace Associates
President

- Whitespace Associates specializes in technology consulting. Our core strengths are the future of technology, and technical expertise in patent strategy and litigation.
  - 2015-2016: Retained by Bartlit Beck Herman Palenchar & Scott LLP as an expert technology consultant for Amazon.
  - 2014-2015: Retained by Sidley Austin LLP as an expert witness for the defense in ContentGuard v. Apple. I was deposed and testified at trial.
  - 2013-2014: Retained by Kirkland & Ellis LLP as an expert technology consultant for the defense in Intertrust v. Apple.

2009 -
2013

Consultant

- Retained by counsel as an expert technology consultant in a confidential patent litigation matter.

2007 -
2009

IBM Watson Research Center,
Yorktown Heights, NY
Patent Strategist

- Led a team of domain experts and patent attorneys in the evaluation of dozens of patentable ideas, in almost every case

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creating patent applications that greatly generalized the original ideas of the inventors. Asked to be a co-author on several patent applications because my ideas had so significantly changed the patents.

2006   IBM Watson Research Center,
Yorktown Heights, NY
Corporate Strategist

- Led the Research Division software strategy for the 2006 Technology Outlook, outlining the most important areas of technology to IBM in the subsequent years. Predicted pervasive virtualization to optimize large systems use and management, and the rise of applications that take advantage of multiple web services (e.g. maps, friend lists).

1994 -   IBM Watson Research Center,
2006   Yorktown Heights, NY
Senior Manager, Massively Distributed Systems

- Created and led the Research Division effort on Autonomic Computing, the goal of which is the dramatic simplification of the management of large IT systems by making IT resources self-managing. Developed an agent-based architecture in which IT resources continually adapt themselves to optimize the overall system according to high-level administrative goals.
- Created a long-term research project to examine the implications of billions of economically motivated software agents interacting as part of a global digital economy. Results included the discovery of endemic price wars and other undesirable behaviors, which can be mitigated by giving the agents the ability to learn from their actions; a prototype environment for economic agents that is fundamentally decentralized and distributed; and work within the FIPA standards organization to standardize agent communications.
- Turned IBM AntiVirus into a multi-million dollar business, doubling revenue every year for several years. IBM AntiVirus was licensed to millions of computers worldwide, making it one of the most widely licensed IBM products ever.
- Responsible for IBM AntiVirus R&D management, a peer business executive position alongside Marketing and Sales.

Grew R&D staff to 50 people, including a number of world-renowned scientists and technologists.

- Led technical negotiations to license our anti-virus technology to Intel and Symantec, resulting in multi-million dollar deals for IBM.
- Led anti-virus R&D for incorporation of our immune system technology into Symantec products, which shipped in 4Q 2000. The immune system is a completely automated response to new viruses, capable of deriving and distributing a cure for a new virus in a matter of minutes after its first appearance anywhere in the world. This is all done automatically and is both faster and safer than the corresponding manual processes. Our immune system technology became Symantec's corporate direction.

1988 - 1994   IBM Watson Research Center,
Yorktown Heights, NY
Manager, Distributed Security Systems

- Performed the first research into the epidemiology of computer viruses, predicting that the problem would become much worse as the world moved onto the Internet.
- Led the development of anti-virus technology designed to meet the growing threat, including a unique immune system for the Internet.
- Created the IBM AntiVirus product line on Windows, Netware, Lotus Notes, DOS and OS/2, and made it into an entrepreneurial business inside IBM.

1984 - 1988   IBM Watson Research Center,
Yorktown Heights, NY
Research Staff Member

- Invented architecture for physically secure cryptographic coprocessors and applied it to protecting rights to use digital media.
- Created the organizing framework for NIST's FIPS 140-1 standard for the physical security of cryptographic systems.
- Led the development of successful prototypes based on this architecture, resulting in the Integrated Cryptographic Feature

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for IBM System 390 and the IBM 4758 Cryptographic Coprocessor, the first systems rated at Security Level 4 (the highest) of the FIPS 140-1 standard.

1982 -
1984
    IBM Watson Research Center,
Yorktown Heights, NY
Postdoctoral Fellow

- Created a physics-based analysis of the simulated annealing optimization algorithm, providing the first method for adapting the algorithm to a wide range of problems.

Education

1982   University of California, San Diego, CA
Ph.D. Theoretical Condensed Matter Physics

- Thesis: "Electronic Structure of Semiconductor Heterostructures"
- Advisor: Lu J. Sham

Awards

2007   Research Accomplishment for making autonomic computing into a recognized academic discipline.

2006   Elected to the Technical Council, the governing body of the IBM Academy of Technology.

1996   IBM Corporate Technical Award for IBM AntiVirus Technology and System Design. This is the **highest technical award** given in IBM and is given each year only to a handful of people.

1996   Elected a member of the IBM Academy of Technology, an elite group that advises senior executives on technology issues.

1995   IBM Outstanding Technical Achievement Award for IBM AntiVirus Products.

1987   IBM Outstanding Technical Achievement Award for Enhancements to Simulated Annealing.

1986   IBM Outstanding Innovation Award for ABYSS – A Basic Yorktown Security System.

Media Highlights

Coverage of my work, along with interviews, has appeared regularly in the major media: Forbes, NBC, ABC, CNBC, CNNfn, Bloomberg TV, NPR, Wall Street Journal, New York Times, Washington Post, San Jose Mercury-News, Times (London), Financial Times (London), Los Angeles Times, Boston Globe, Philadelphia Inquirer, Atlanta Journal-Constitution, Nikkei Shinbun (Tokyo) and various Web sites. Other selected highlights include:

- Time Magazine (August, 2000) "The New Hot Zone," pp. 30-37. And (Nov. 11, 1996) "The Next Big Thing: Curing Digital Disease," pp. TD 49, **Two Cover Articles.**
- Science News (July 31, 1999) "Do Computers Need Immune Systems?" pp. 76-78. **Cover Article.**
- Atlantic Monthly (April 1999) "The Virus Wars," pp. 32-37. **Cover Article.**
- US News & World Report (April 12, 1999) "Why Melissa Is So Scary," pp. 34-36.
- New Scientist (24 May 1997) "The Internet Strikes Back," pp. 35-37. **Cover Article.**

Patents

The following is a list of my issued patents and pending patent applications.

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