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STEPHEN D. BRISTOW

PROFESSIONAL EXPERIENCE

**2004 to Present Plantronics
Principal Systems Engineer**

Responsible for the insuring the integrity of design, the systems architecture, and the feasibility of Plantronics projects using wired, wireless, analog, or DSP technologies. This involves coordinating the efforts of the marketing, product management, and engineering groups worldwide at Plantronics.

**2000 to 2004 Televoke
Vice President of Systems Integration**

Responsible for the integration of web, telephony and wireless technologies to enable users to communicate and control any Televoke-enabled device, either over the web or from any touch-tone phone. In turn, the device can communicate with the user by contacting him with whatever means the user desires, such as a cell-phone, pager, email, or fax.

**1999 to 2000 Radica Innovations
2001 to 2002 Vice President of Research & Development**

Responsible for research and development for this \$150M manufacturer of consumer electronic products including electronic game simulators and personal gaming equipment.

1998 to 2003 Goodman Associates

Developed in this part time consulting partnership a novel RFID system incorporated in the "I Know Baby" and "I Know Puppy" products by Toy Biz. Over 500k units produced for royalties of over \$500k total. The technology involves a passive RFID system that allows for simultaneous identification of multiple objects located in the proximity of the sensor.

liaison and market testing supervisor, and made major design contributions to several game products. Set up an in house recording and editing system for the creation of digitized voice and audio for use in coin operated video consumer products. Responsibilities included the selection and interfacing of video lottery machine printing mechanisms.

1989 to 1991 **Verifone, Inc.**
Director of Engineering

Responsible for the Taipei development group and the Auburn and Redwood City (California) development groups for Verifone. Technology involved networking in the point-of-sale (POS) environment. Product areas included magnetic cash card operated vending systems including cards, readers, audit systems and dispenser; spread spectrum LAN links, optical check readers using neural network chips, cellular radio data links, POS printers, pinpads, and credit card terminals. This work included research into the phasing in to Verifone's business of the use of smart cards and the ultimate decision to use a hard magnetic watermark encoded for use in a cash card system that was deployed in Hawaii.

1988 to 1989 **Interactive Game Network**
Consultant (full time)

Designed the hardware and software for a VBI to IR translator incorporating a novel error-correcting system for use on VBI-transmitted data.

1988 to 1989 **Hasbro Electronics**
Full Time Consultant

Performed design, simulation and testing of the video timing and control ASIC for a new video tape based game system that was capable of playing 4 channels of video, 16 channels of sound, and the game program on standard VHS video tape. The chips were functional on the first fabrication pass.

1986 to 2003 **Wright Technology**
(Part time venture)

Partner in the venture, which developed a smart card, based postal meter. Multiple patents in the area of smart card technology and encryption issued as a result of this venture. The technology was licensed to Pitney Bowes and over 300k of our smart postal meters were produced and are being leased by Pitney Bowes. The technology includes providing for secure printing and the use of smart cards to contain multiple applications

on a smart card. Other Wright Technology projects have included the use of contact and contactless smart cards for use in transit and ski gate control.

1984 to 1994 **Wright Technology**
Co-founder and Partner

Serve as chief technological partner in this ongoing entrepreneurial/consulting venture. Major projects included design of fax-phones, 2.4 GHz spread spectrum radio systems, paging systems and other telecommunications products for Brother, Inc., and development of a postage meter based around the HP ink jet printer head for Pitney Bowes. The meter uses Smart Cards to hold the postage value securely. Our 10% investment partner was Honeywell-Bull's Smart Card Group. Have become an expert in Smart Card technology through this association and training at Bull's USA subsidiary as well as training at Gemplus. Listed as an inventor on 3 Wright patents involving the use of smart cards and have testified as an expert by declaration for Pitney Bowes in their opposition to EStamps' New Zealand patenting attempts. Familiar with the basic Smart Card patents and was instrumental in preparing the Wright patent applications in a manner to allow us to provide protection around the Morino basic Smart Card patents.

1984 to 1988 **Technicom Advanced Design Center**
Director

Set up lab to do product research and development through final production for Tie Communications of Shelton, CT. Designed small key systems of 6 x 16 and 12 x 32 line/station capacity. This work included product definition, electrical design, mechanical design, documentation and manuals. In addition we designed a custom IC-based low-cost phone, UPS power supply and busy lamp field secretarial display unit.

1973 to 1984 **Atari, Inc.**
Vice President, Engineering

Responsible for all aspects of game design, OEM product selection and production. Products included home games, electronic board games, pinball machines, home computers, home computer and home game software, consumer power line carrier and standard phone systems, and coin operated games and pinball machines. OEM products included printer mechanisms for home and coin operated games. Set up and staffed groups from the ground up. Was responsible for the custom IC design effort in the consumer division. Managed organizations ranging from 4 to 250 personnel.

Specific assignments were: electrical engineer 6-10/74, VP Engineering, Key Games 11/73 - 11/74, VP Engineering, Atari (coin operated games) 11/74 - 11/76, VP Engineering, Electronic Board Game Division and Coin Operated Games 11/76 - 12/77,

VP Engineering and Plant Manager Pinball Production 11/77 - 9/78, VP Engineering, Consumer and Home Computer Division 10/78 - 12/79, VP Engineering, Consumer

Game Division 12/79 - 6/80, VP Advanced Technology 6/80 - 3/82, VP Engineering, Atari Tel Division 3/82 - 12/83, VP Engineering Computer Division and Atari Fellow 1 - 2/84.

1971 to 1973 Nutting Associates
Chief Engineer

Responsible for continued support of the "Computer Space" game as well as the development of three new games for the AMOA trade show.

EDUCATION

BSEE, UC Berkeley, 1973, Regents Scholar with Highest Honors
MSEE, University of Santa Clara, 1981

LITIGATION RELATED EXPERIENCE

Disclosed as a testifying expert in the following closed matters. Additionally there are on-going undisclosed litigation activities.

Case: Pitney Bowes v. Wright Technology
Matter: Contract dispute-Arbitration
Responsibilities: Prepared a declaration regarding the prosecution of electronic postal meter patents for this matter and was deposed
Date closed: 2003
Attorney: Pennie & Edmonds for plaintiff

Case: Gemstar v. Scientific Atlanta et al
Matter: ITC trial regarding Interactive cable TV Guide
Responsibilities: Preparation of declarations, assistance in brief and rebuttal brief arguments, review of other experts work, depositions, and testimony at trial
Date closed: 2002
Attorney: Townsend & Townsend for plaintiff

Case: JWV v. Interact Accessories
Matter: Patent dispute
Responsibilities: Delivered an expert report and testified at bench trial
Date closed: July 2002
Attorney: Gordon Feinblatt for defendant

Case: Telemac v. US/Intellicom
Matter: Patent dispute
Responsibilities: Prepared a number of reports, was deposed, and testified at trial.
Date closed: 2002
Attorney: Townsend and Townsend for the plaintiff

Case: MGA v. Smart TV
Matter: Patent dispute
Responsibilities: Prepared reports and was deposed
Date closed: 2002
Attorney: Mitch Rosenfeld with Capstone Law Group for defendant

Case: Dickerson v. Electronic Arts
Matter: Patent infringement
Responsibilities: Patent review and conference at pre trial pre settlement
Date closed: 2001, settled
Attorney: Jenner & Block for defendant

Case: Smart TV v. Koplar
Matter: Patent infringement-Transmission of data over a visible TV signal
Responsibilities: Conducted patent and prior art review and was deposed. Settled in clients favor.
Date closed: 2000
Attorney: Tatro, Doffino Zeavin and Bloomgarden LLP for defendant

Case: Indochina v. Stratford, et al.
Matter: Insurance claim
Responsibilities: Testified at jury trial on operation of fax machine
Date closed: 2000
Attorney: Carlson Messer & Turner LLP for defendant

Case: Pitney Bowes v. E-Stamp
Matter: Patent infringement venued in New Zealand
Responsibilities: Postal meters and the E-Stamp Corporation. Effort included research and production of an expert report and declaration for a New Zealand patent issue.
Date closed: 2000
Attorney: Inside counsel for Pitney Bowes

Case: Electronic Arts v. David Sitrick
Matter: Patent infringement regarding networked gaming systems
Responsibilities: Prepared a number of reports and declarations. This matter settled before trial.
Date closed: 2000, settled
Attorney: Fenwick and West for defendant

Case: Trakker, Inc. et al v. Starsight Telecast, Inc.
Matter: Patent dispute regarding "Electronic TV guide"
Responsibilities: Deposed and testified at trial.
Date closed: 1999
Attorney: Orrick Herrington for defendant

Case: StarSight v. United Video
Matter: Patent dispute regarding Interactive cable TV guide
Responsibilities: Deposed and testified at trial in 1995-1997 in Federal Court in Tulsa Oklahoma and in Federal Court in San Jose, Calif. This work involved the delivery of TV program guide information over both cable and satellite channels.
Date closed: 1999
Attorney: Townsend & Townsend for plaintiff

Case: Universal Electronics
Matter: Contract dispute regarding warranty repair
Responsibilities: Reviewed a warehouse full of damaged remote controls and delivered an expert report on their cause of failure.
Date closed: 1998
Attorney: Jones Day for defendant

Case: Nintendo Video Game System v. Magnavox
Matter: Patent dispute
Responsibilities: Prepared reports was deposed and testified at trial.
Date closed: 1997
Attorney: Bob Gunther with Mudge Rose for defendant

Case: David Sukonick v. Commodore Games
Matter: Patent dispute re Video Game Scrolling System
Responsibilities: Prepared reports and was deposed
Date closed: 1997
Attorney: Dick Smith with Finnegan for defendant

Case: Atarti v. Nintendo
Matter: Patent dispute
Responsibilities: Prepared reports and was deposed
Date closed: 1996
Attorney: Spense Lubas for plaintiff

Case: Alpex Computers v. Commodore Games
Matter: Patent dispute
Responsibilities: Prepared reports and was deposed.
Date closed: 1996
Attorney: Dick Smith with Finnegan for defendant

PATENTS

<u>Patent Number</u>	<u>Year Issued</u>	<u>Title</u>
6,901,253	2005	Method for Synthesizing Mobile Identification Numbers
6,810,244	2004	Method for Synthesizing Mobile Identification Numbers
6,364,735	2002	RF Identification System for Use in Toys
5,841,843	1998	Facsimile Forwarding Method and System Using a Simulated Telephone Line Interface
5,839,054	1998	Automatic Registration Paging System
4,900,904	1990	Automated Transaction System with Insertable [SMART] Cards for Downloading Rate or Program Data
4,900,903	1990	Automated Transaction System with Insertable [SMART] Cards for Transferring Account Data
4,864,618	1989	Automated Transaction System with Modular Printhead having Print Authentication Feature [communicates with Smart Cards]
4,802,218	1989	Automated Transaction System [using Smart cards]
4,423,870	1984	Video Game Collision Detection System
4,192,507	1980	Light Actuated Shooting Arcade Game
4,169,272	1979	Apparatus for Simulating a Perspective View of a Video Image and for Storing Such Image with a Minimum Number of Bits
4,104,625	1978	Apparatus for Providing Facial Image Animation
4,099,719	1978	System and Method for Automatic Alignment of Gun with Video Display

<u>Patent Number</u>	<u>Year Issued</u>	<u>Title</u>
4,099,092	1978	Television Display Alignment System and Method
4,091,234	1978	Joystick with Attached Circuit Elements
4,045,789	1977	Animated Video Image Display System and Method
4,016,362	1977	Multiple Image Positioning Control System and Method

PROFESSIONAL AFFILIATIONS & AWARDS

Past Member, IEEE and Administration Committee of Consumer Electronics group of IEEE for 2 years
Member, Society for Information Display
Member, Program Committee of SID for 4 years
Member, Society of Motion Picture and Television Engineers (SMPTE)
Instrument rated private pilot
Amateur radio license
First class radiotelephone license with radar endorsement