



Electronic Security Systems and Sensors

Electronics R&D - New Product Development

Over 35 years of deep industry experience, spanning hands-on technical roles to senior executive leadership.

Former Vice President of Engineering at Tyco Security Products / Digital Security Controls (DSC) – a premier global electronic security systems manufacturer with annual sales surpassing ~\$400 million. (DSC acquired by Tyco in 2001.)

Responsible for the research, development, and launch of hundreds of products, including Wired & Wireless Security Systems, Burglar / Fire / Access Control Panels, Motion Detectors, Smart Solar LED Lighting, among others.

Comprehensive expertise in the entire product development lifecycle, from initial conception to mature production.

Named inventor on over 25 patents with thorough knowledge in patent identification, filing, and the litigation process.

Seasoned in Civil, Criminal, & Patent Litigation, Arbitration, and Inter Partes Reviews (IPRs). Involved in **30+ cases**, marking significant experiences with **10 IPRs, 4 depositions, and 3 courtroom testimonies**; further contributed with multiple expert reports and declarations.

Previous Clients: (Partial List) 2GIG Technologies | AIG Insurance Company | ADT | Alarm.com | AT&T Digital Life | Chubb Insurance | ITX Security Co. | Lowe's Companies | MD Security Solutions | Nest Labs (Google) | Protect America | SecureNet | Skybell | Slomin's Inc. | Telular Corporation | Wal-Mart Canada | Zmodo Technology | Zonoff | Akerman | Baker Botts | Bryan Cave Leighton Paisner | Cooley | Cravath Swaine & Moore | Duane Morris | Fish & Richardson | Hennessy & Roach | Hunton Andrews Kurth | Kilpatrick Townsend | King & Spalding | Morgan Lewis & Bockius | Perkins Coie | Pillsbury Winthrop Shaw Pittman | Weil | WeirFoulds

Areas of Expertise:

Burglar Alarm Security Systems	Electronic Security System and Sensor Design – Wired and Wireless	New Product Development (NPD)
Wired, Wireless and Hybrid Security Alarm Systems and Sensors	Electronic Circuit Design (Analog, Digital and RF)	Product Research & Development
Intrusion Detection Systems	Embedded Controllers (CPU/MCU) (Zilog Z8/eZ8, Microchip PIC, etc.)	Electronic Product Design
Premise Monitoring Systems	Software Coding (Assembler / C)	Engineering Management
Smoke and Fire Alarm Systems	Circuit Simulations and Analysis	Speed to Market
Integrated Security Systems	Narrowband RF wireless (433Mhz)	End to End Product Design & Manufacturing
CCTV / Video Surveillance and Monitoring, Video Alarm Verification	Spread Spectrum (902 to 928 Mhz)	Design for Manufacturability
Audio Listen In, Intercom, Paging with Security	Battery Charging and Protection (CC/CV, LiFePO4, Li-Poly, etc.)	Design for Reliability
Access Control with Security	Low voltage (control) systems	Cost Reduction Programs
Home Automation with Security	Alarm System Monitoring & Communications to Central Station	R&D Budget Optimization
Occupancy Detection Systems	Alarm Signaling Technology, Cellular, Land Line, Long Range RF, TCP/IP	Compliance & Agency Approvals
Alarm Control Panels, Intrusion Ctrl Panels, Alarm System Controllers, Burglar/Fire/Access Control Panels	Security Network Protocols (AML, Wireless, Keybus, Combus)	Environmental Immunity (ESD/EFT)
Keypads, Zone Expanders, Wireless Rx/Tx, Output Modules, Sensors, Digital Dialers / Communicators	Personal Emergency Response System (P.E.R.S.)	Radiated & Conducted Immunity
Motion Detectors, PIR (Passive InfraRed) Fresnel & Mirror Optic, µW Doppler (X/K Band Microwave)	Telephone, Thermostat, X-10 (PLC) Interactive Interface with Security	False Alarm Immunity
Smoke Detectors, Heat Detectors	SOHO PBX Telephone Systems with Touch Tone & voice interface	Plastic Enclosure (Tooling) Design for Production Injection Molding
Door and Window Sensors	Glassbreak Detectors, Vibration and Shock Sensors	Mixed Mode ASIC Development
Smart Home / Home Automation		Electronic (Smart) Thermostats
		Solar Cell Charging Circuitry (MPPT)
		Energy Management Systems
		LED Driver & Control Circuitry
		Solar Powered LED Lighting (Patio to Street Level)

Industry Work Experience

- **Electronic Security Systems and Sensors**
- **Electronics R&D – New Product Development**

Consultant at Parker Security Consulting Inc.

www.psecon.com

June 2011 to Present

I founded Parker Security Consulting Inc. in June 2011 to provide technical consulting and expert witness services in the areas of Electronic Security Systems and Sensors, Electronics R&D, and New Product Development. Drawing on my 35+ years of industry experience, I have handled over 30 separate cases, including more than 10 Inter Partes Reviews (IPRs), 4 depositions, and 3 courtroom testimonies. My responsibilities also encompass the authoring of numerous expert reports and declarations. For a detailed breakdown of my Expert Witness / Consultant Experience, please refer to page 5 of this document.

President at EE-Systems Group Inc. Canada (R&D)

www.eesgi.com

August 2004 - 2014

I co-founded EE Systems Group Inc. in both Canada (for R&D) and the United States (Operations), taking on full management and executive responsibility. My oversight extended to new product and business development, where I spearheaded the creation of multiple new technologies and intellectual property. This led to the development, filing, and/or granting of multiple patents in the United States, Canada, China, and internationally.

I also defined and negotiated major corporate contracts with several organizations, resulting in numerous new products being developed and introduced to production. Among the notable achievements was the development and licensing of EE-SGI's "ePIR" software to several multinational companies, including Zilog, now part of Littelfuse, Inc., for passive infrared motion detection (marketed under the name "ZMOTION"). The ePIR / ZMOTION solution provides for both intrusion and occupancy detection.

Additionally, I developed the eFAR100 False Alarm Reduction module using embedded Z8 MCU technology with firmware written in assembler (machine code), and a full scalable suite of technology for solar-powered, motion-controlled, LED illumination ranging from patio to parking lot sizes.

My leadership in R&D also led to the successful completion of multiple SR&ED (Scientific Research and Experimental Development) applications, resulting in significant government financial grants being awarded to EE-SGI for true R&D work.

Vice President of Engineering at Tyco Security Products

Head of Engineering at Digital Security Controls (DSC) Limited

(Note: DSC was acquired by Tyco Security Products in December 2001)

www.tycosecurityproducts.com | www.DSC.com

March 1985 - December 2003 (~19 years)

DSC began in 1979 as a basement operation supplying alarm control panels to the Canadian market. I joined DSC in March 1985, shortly after the company moved out of the founder's basement and into a small industrial unit, marking its sixth year of operation. Over the course of nearly 19 years, I played a central role in transforming DSC into one of the three largest companies in its marketplace, with worldwide sales in over 120 countries.

As the Head of a 200+ member engineering department, I was responsible for all of DSC's research and product development efforts. My leadership extended to cross-functional responsibilities in Marketing, New Business Development, and Manufacturing, as well as the development of policies, procedures, and practices. I also managed financial planning, budget generation, corporate patent administration, key vendor relationships, and major customer interactions.

I was principally involved in several corporate initiatives such as Six Sigma, ISO900X quality programs, Speed to Market, Ethics training, and Major cost reductions. My efforts in driving the corporate Speed to Market initiative resulted in an average product development cycle reduction of nearly 50%, cutting development time in half.

My technical contributions to DSC were substantial. I brought microcontroller and other advanced technologies to the company, developed the KEYBUS and COMBUS protocols for interconnecting components, and conceived and drove the development of over twelve mixed-mode ASICs (Application Specific Integrated Circuits) with a perfect track record of commercial success.

I also played a crucial role in saving DSC from a 15% shortfall in annual production due to a clerical error, using my relationship with a supplier's senior management to resolve a critical component shortage.

Prior to DSC's sale to TYCO, I re-negotiated agreements with key suppliers, resulting in annualized savings of over ten million dollars. I also worked directly with one of Latin America's premier telephone operators to rapidly produce functional prototypes, demonstrating my ability to respond swiftly to client needs.

DSC's growth, fueled by an optimum combination of product feature set, cost, and quality, culminated in its acquisition by TYCO in December 2001 for approximately \$400 million dollars. My extraordinarily successful career at DSC is a testament to my technical expertise, leadership acumen, and unwavering commitment to innovation and excellence.

Vice President of Engineering at Swinemaster Inc.

June 1984 – March 1985

During my tenure at Swinemaster Inc., I led a small R&D team in the development and construction of several working prototypes for an automated juvenile swine feeding machine. This innovative project required a multipart component design, utilizing up to 10 Zilog Z8 Microcontroller Units (MCU's), with the software meticulously developed in assembly language (machine code).

My responsibilities extended beyond the technical aspects of the project, as I also implemented field trials to test the functionality and efficiency of the feeding machine. Through careful observation and analysis, we refined the design to enhance its performance and reliability.

The project culminated in moderate commercial success, reflecting the dedication, expertise, and innovation that characterized our approach. My leadership and hands-on involvement in both the hardware and software components of the machine played a crucial role in bringing this unique solution to the market.

Technical Sales Representative at Har-Tech Electronics Ltd.

January 1984 – June 1984

In my role as a Technical Sales Representative at Har-Tech Electronics Ltd., I served the greater Toronto area (GTA), providing both sales and technical support to customers and potential customers of electronic component manufacturers, including Zilog.

One of my notable achievements during this period was introducing the Z8 MCU to Digital Security Controls (DSC). This introduction was not merely a routine sales effort; it marked the beginning of a significant relationship between DSC and Zilog. My ability to recognize the potential synergy between the products and the needs of DSC led to a successful collaboration that ultimately resulted in DSC becoming Zilog's largest customer in Canada several years later.

My experience at Har-Tech Electronics Ltd. showcases my ability to bridge the gap between technical expertise and sales acumen, understanding the intricate details of electronic components, and translating that knowledge into tangible business opportunities.

Engineering Technologist at Thermetic Controls Limited

January 1983 – December 1983

During my time at Thermetic Controls Limited, I played a pivotal role in enhancing the efficiency and quality of the company's production processes. My responsibilities were multifaceted and included the design and implementation of production test equipment specifically for baseboard heater safety limit switches.

One of my significant contributions was the design and construction of a working prototype of a digital setback thermostat. This innovative device controlled electric baseboard heaters by synchronized pulse width modulation (PWM) of 240 VAC mains, showcasing my ability to apply advanced technical concepts to practical applications.

Furthermore, I designed, built, and implemented Automated Test Equipment (ATE) for quality control checks on production baseboard heater safety limit switches. This automation not only streamlined the testing process but also saved considerable time and effort over the previous manual implementation.

My work at Thermetic Controls Limited reflects my commitment to innovation, quality, and efficiency, as well as my ability to translate complex engineering concepts into tangible solutions that enhance production processes.

Publications and other Documentation

The Greek Philosopher Plato and ... False Alarms

Published in the National Burglar and Fire Alarm Association (NBFAA) trade journal on June 6, 2005. Click [here](#) for a PDF copy from my archives.

Over 25 Patents

Named as an inventor on over 25 patents, reflecting a prolific and innovative career in electronic security systems, sensors, and related technologies. See next page for further details.

Proprietary Engineering and Product Specifications

Authored and contributed to a wide array of proprietary engineering documents and product specifications, reflecting my expertise in electronic security systems and related technologies.

Product Manuals and Guides

Made numerous contributions to product manuals and guides, providing clear and concise information to facilitate user understanding and enhance product usability.

Education

Yorkville University

Formerly **RCC Institute of Technology** ([RCC](#))

Toronto, Ontario, Canada

1980 – 1982

Electronic Engineering Technology

Earned a diploma in Electronic Engineering Technology, a qualification roughly equivalent to a U.S. bachelor's degree. This program provided a comprehensive foundation in electronic engineering principles, equipping me with the skills and knowledge to excel in the field.

Northern Secondary School


























Toronto, Ontario, Canada

1975 – 1979

Engaged in Electronics as part of the Shop class curriculum, fostering an early interest in the field.

Actively participated in the Electronics Club, where I honed my skills as a hobbyist and project builder. This hands-on experience laid the groundwork for my future career in electronic engineering.

James Parker's Patents by Priority Date (Listed as an Inventor)

- **Wireless Alarm System (1993)** 
 - A security system having a two-way wireless keypad which operates in a particular manner for improved operation...
- **Method and Arrangement for Recognition of a Coded Transmitted Signal (1994)** 
 - The present invention is for fast, reliable recognition of coded signals where the signal includes a predetermined...
- **Security System with Two Signal Reporting (1997)** 
 - A security system having two distinct channels of communication and which uses a single communication device...
- **Home Automation and Security System Controller (1997)** 
 - The present invention, in one aspect, is directed to a security system which is capable of acting as an information...
- **Controllable Still Frame Video Transmission System (1997)** 
 - A video capture controller for selective capture of video images from a plurality of video cameras, the capture...
- **Programmable Temperature Sensor for Security System (1998)** 
 - The present invention in one aspect, provides for a programmable temperature sensor for a device as part of a...
- **Suspended Code for Alarm System (1998)** 
 - The system generates alarm suspension codes without direct interaction with the alarm panel. The alarm control...
- **Biometric Input Device for Security System (1998)** 
 - The present invention provides for a biometric input device for a security system. The biometric input device includes...
- **Dual Mode Panel (1999)** 
 - A dual mode alarm control panel includes a sensing arrangement for determining conditions of the environment in...
- **Alarm System Using Local Data Channel (1999)** 
 - An alarm system has an alarm unit in combination with a line seize module. The alarm unit includes a transmitter /...
- **Alarm System with Programmable Device Control (2000)** 
 - An alarm system providing programmable remote control of electrically controlled devices, such as lights, is provided...
- **Security Alarm Keypad with Message Alert (2000)** 
 - A security alarm system is adapted to retrieve e-mail status information and provide an alert signal for the user of the...
- **Remote Recovery Arrangement for Alarm System (2000)** 
 - A security alarm system cooperates with a remote monitoring station to improve the reliability of the alarm system...
- **Security Alarm Keypad with Message Alert (2000)** 
 - A security alarm system is adapted to retrieve e-mail status information and provide an alert signal for the user of the...
- **Remote Recovery Arrangement for Alarm System (2000)** 
 - A security alarm system cooperates with a remote monitoring station to improve the reliability of the alarm system...
- **Alarm System with Programmable Device Control (2000)** 
 - An alarm system providing programmable remote control of electrically controlled devices, such as lights, is provided...
- **Integrated Lightning Detector (2003)** 
 - An alarm panel of a security system is additionally provided with an interference circuit for evaluating the possible...
- **False Alarm Reduction Method and System (2005)** 
 - A digital verification control, which is incorporated with an alarm system, includes a first timer device for presetting a...
- **Security Device with Built-In Intercommunicated False Alarm Reduction Control (2005)** 
 - A security device includes a plurality of security detectors intercommunicating with each other. Each of the security...
- **Integrated Detecting Processor (2005)** 
 - An infrared sensor includes an infrared generator for generating infrared radiation within a detecting area, a pyro...
- **Energy Signal Detection Device Containing Integrated Detecting Processor (2005)** 
 - An energy signal detection device includes a pyroelectric sensor sensing an infrared radiation within a detecting area...
- **Process and System of Energy Signal Detection (2006)** 
 - A process and system of energy signal detection, which improves sensitivity, performance and reliability thereof and...
- **Process and System of Power Saving Lighting (2007)** 
 - A process and system of lighting with green energy source and intelligent power management, which saves energy...
- **Process and System of Energy Signal Detection (2008)** 
 - A process and system of energy signal detection, which improves sensitivity, performance and reliability thereof and...
- **Single MCU-Based Motion Detection, Local Alarm and Supervisory Arrangement for Alarm System (2008)** 
 - A device with single MCU-based motion detection, local alarm and supervisory arrangement for alarm system...

Click on the respective  icon above to open a corresponding PDF copy of the patent.

Expert Witness / Consultant Experience *(in reverse chronological order)*

Inter Partes Reviews (IPRs) of U.S. Patents 10,281,183 and 10,739,051

Filing Date: 03/06/2023. Termination Date: 07/25/2023

Patent Trial & Appeal Board. IPR2023-00685 and IPR2023-00691.

Retained by **Volpe and Koenig PC**, representing the petitioner **Testo Inc.** Assisted in the preparation of two (2) IPR petitions. Assisted in the search, vetting and prioritization of prior art (anticipatory) and obviousness references. Generated comprehensive expert declarations and was heavily involved in the preparation and review of the finalized IPR Petitions. The patent challenger prevailed in both IPR petitions with favorable rulings from the PTAB.

Capital Murder Trial 3 - The State of Texas vs. Antonio Armstrong Jr.

Retained: 10/17/2016. Completed: 08/02/2023.

178th District Court for Harris County (Houston), Texas 77002

Retained by **Collings & Associates AAL**, on behalf of the **Armstrong** (defendant's) family for the third trial of Antonio Armstrong Jr. following mistrials in the first and second trials. Analysed new records asked for and provided after first and after second trial ended (both in mistrial) that pertained to the functionality or lack thereof the entry and exit door sensors at the homicide location. Provided proof that these door sensors produced erroneous results. Attended trial via ZOOM to observe states expert's testimony. Provided cometary and analysis to defendant's attorneys regarding states expert's testimony. Trial still in progress when this CV was released.

Technical Consulting – EarthCam Inc.

Retained: 02/10/2022. Status: Active.

Retained by **EarthCam Inc.** to provide technical input on numerous occasions covering product design review, failure analysis, specification comparisons, and various other aspects of new product development.

Civil Litigation - Chubb Insurance Company of Canada vs. a.p.i. ALARM Inc.

Retained: 01/27/2022. Completed: 06/02/2022.

I was retained by the law firm of **WeirFoulds LLP** representing the **Chubb Insurance Company of Canada** (the Plaintiff). Reviewed all relevant case material. Provided direction and documentation to support and prepare plaintiffs council for deposing representatives of the defendant, A.P.I Alarm Inc. Provided subject matter information as required.

Civil Litigation - Jewelers Mutual Insurance Co. vs. Shiver Security Systems Inc. and Action Security, LLC.

Retained: 11/23/2021. Completed: 03/31/2022.

U.S. District Court for the Southern District of Indiana (New Albany Division).

Case 4:20-CV-217-TWP-DML

The Jewelers Mutual Insurance Company, as subrogee of Koerber's Fine Jewelry, Inc., launched a civil suit to recover damages paid to Koerber's Fine Jewelry. The co-defendants in this suit were Shiver Security Systems Inc. and Action Security, LLC. I was retained by **Brownyard Claims Management Inc.**, represented by **Hennessy & Roach, P.C.** responsible for the defense of the UL (Underwriters Laboratories) certified monitoring station **Shiver Security Systems** only. I was not involved in the defense of Action Security, the alarm installation and maintenance provider for the UL Certificated Mercantile Burglar Alarm system installed at the Koerber's Fine Jewelry premises. Reviewed and analyzed all relevant documents including the plaintiff's expert report, deposition transcripts of all involved, police records, UL standards, UL records and certificates, equipment manuals, service agreements, operating procedures, audit trails, activity reports and the like. Generated detailed expert report. Deposed by plaintiff's council (Cozen O'Connor LLP). The end result was a favorable outcome for Shiver Security Systems as they were dropped from the suit.

Inter Partes Review (IPR) of U.S. Patent 10,325,159

Filing Date: 10/18/2021. Termination Date: 05/30/2023.

Patent Trial & Appeal Board. IPR2022-00071

Retained by **Pillsbury Winthrop Shaw Pittman LLP**, representing the petitioner **ADT LLC**. Reviewed patent chain file histories and assisted in the search, vetting and prioritization of prior art (anticipatory) and obviousness references. Actively involved in the preparation of the Petition. Generated Expert Declaration to accompany the petition filing. Deposed by opposing council (Maschoff Brennan LLP). Successful outcome for the petitioner ADT LLC as the PTAB invalidated U.S. Patent 10,325,159 patent in May of 2023.

Civil Litigation Preparatory Investigation – Wal-Mart Canada Corp. vs. McDonald's Canada

Retained: 05/28/2021. Completed 04/21/2022.

I was retained by the law firm of **WeirFoulds LLP** representing **Wal-Mart Canada Corp.** and the **AIG Insurance Company of Canada**. I was asked to provide expert analysis and commentary pertaining to aspects of the operation, or lack thereof, of the security camera system installed in a specific McDonalds restaurant located within a Wal-Mart retail facility. The McDonalds restaurant had suffered a probable arson event causing significant damage to the adjacent Wal-Mart location. Reviewed and analyzed case material and other relevant documentation. Performed additional in-depth research. Generated detailed expert report providing my opinions and conclusions.

Patent Infringement - Alertus Technologies, LLC v. Desktop Alert Inc. et al

Filing Date: January 17, 2020. Termination Date: September 28, 2020.

U.S. District Court District of Maryland (Greenbelt). Case 8:20-cv-00154. Patent: US 7,889,092

Retained by **Norris McLaughlin & Marcus PA**, representing the defendant **Desktop Alert Inc.** Reviewed the patent in suit (US 7,889,092) as well as other relevant case material. Searched for and provided potential prior art (anticipatory) references. Case settled before trial.

Capital Murder Trial 2 - The State of Texas vs. Antonio Armstrong Jr.

Retained: 10/17/2016. Declared a Mistrial: 10/26/2022.

178th District Court for Harris County (Houston), Texas 77002

Retained by **Collings & Associates AAL**, on behalf of the **Armstrong** (defendant's) family for the second trial of Antonio Armstrong Jr. following a mistrial in the first trial. Analysed new records asked for and provided after first trial ended (in a mistrial) that pertained to the functionality or lack thereof the motion detectors at the homicide location. Provided proof that these motion detectors produced erroneous results. Attended trial in person to observe states alarm system expert's testimony. Prepared defendant's attorneys for (a very successful) cross examination of the state's alarm system expert. As with the first trial, this trial also ended with a hung jury and was declared a mistrial.

Patent Infringement - Portus Singapore Pte Ltd. et al v. AT&T Digital Life, Inc.

Filing Date: February 6, 2019. Termination Date: March 30, 2020

U.S. District Court for the Eastern District of TEXAS (Marshall). Case 2:19-cv-00044.

Retained by **Kilpatrick Townsend & Stockton, LLP**, representing the defendant **AT&T Digital Life**. Reviewed patents in suit as well as numerous references. Reviewed and assisted in generation of multiple claim charts. Helped with claim language. Identified indefinite terms. Case settled before trial.

Patent Infringement - Axxess International, Inc. v. Genetec (USA) Inc.

Filing Date: August 20, 2018. Termination Date: July 27, 2020.

U.S. District Court for the District of Delaware (Wilmington). Case 1:18-cv-01276.

Retained by **Perkins Coie LLP**, representing the defendant **Genetec (USA) Inc.** Review and discussion of patent in suit via teleconference. Researched and searched for prior art candidates. Generated claim charts and related documentation. Case settled before trial.

Patent Infringement - Karamelion LLC v. AT&T Digital Life, Inc.

Filing Date: August 1, 2018. Termination Date: September 5, 2019.

U.S. District Court for the Eastern District of TEXAS (Marshall). Case 2:18-cv-00331.

Retained by **McKool Smith PC**, representing the defendant **AT&T Digital Life**. Reviewed patents in detail. Analyzed claim language and documented results. Case settled before trial.

Patent Infringement - Alarm.com Incorporated et al v Protect America, Inc.

Filing Date: June 22, 2018. Termination Date: December 18, 2019.

U.S. District Court for the Western District of Texas (Austin). Case 1:18-cv-00521.

Retained by **Honigman LLP**, representing the defendant **Protect America**. Reviewed multiple patents and file histories. Reviewed initial complaint and infringement contentions. Analysed material and provided opinion. Case settled before trial.

Patent Infringement - Iron Gate Security, Inc. v. Slomin's, Inc.

Filing Date: April 9, 2018. Termination Date: January 21, 2020.

U.S. District Court for the Eastern District of New York (Central Islip). Case 2:18-cv-02106.

Retained by **King & Spalding LLP**, representing the defendant **Slomin's, Inc.** Reviewed patent in suit. Qualified and/or searched for and prioritized prior art and/or obviousness material. Reviewed claim terms and identified incomplete and/or indefinite terms. Documented results. Case settled before trial.

International Arbitration Tribunal - Avigilon Technologies Corp. v. ITX Security Co., Ltd. et al.

Date Filed: 08/16/2017. Completed: 03/15/2018.

American Arbitration Association International Centre for Dispute Resolution. Case 01-17-0004-5750

Retained by the **Devlin Law Firm LLC**, representing the Korean based **ITX Security Company**.

Researched and reviewed numerous archival documents. Reviewed ITX's products in detail including schematics, source code, manuals, and other documentation. Prepared detailed report. Prepared for, attended, and testified (with cross) at a three-day hearing held before the International Arbitration Tribunal of the American Arbitration Association in Dallas Texas.

Patent Infringement - Wireless Monitoring Systems LLC v. AT&T Digital Life, Inc. et al

Date Filed: 6/14/2017. Terminated: 12/01/2017.

U.S. District Court for the Eastern District of Texas (Marshall). Case 2:17-cv-00501.

Retained by **Baker Botts LLP**, representing the defendant **AT&T Digital Life**. Reviewed both patents in detail as well as other relevant case material. Searched for and provided multiple prior art candidates. Reviewed potential for Inter Partes Reviews (IPR) . Provided additional technical support. Case settled before trial.

Inter Partes Review (IPR) of U.S. Patent 9,516,284

Date Retained: 04/05/2017. Completed 09/26/2017.

Patent Trial & Appeal Board. PTAB-IPR2017 (not filed – see below)

Retained by **Stratum Law LLC**, and then **Bryan Cave Leighton Paisner LLP** representing the petitioner **Skybell Technologies Incorporated**. Assisted in the search, vetting and prioritization of prior art and obviousness references. Prepared multiple claim charts. Provided definitions of key claim terms with supporting documentation. Generated draft declaration and claim charts. Inter Partes Review (IPR) petition not filed as related litigation matter settled out of court.

Patent Infringement - Eyetalk365, LLC v. Zmodo Technology Corporation, Ltd.

Date Filed: 11/14/2016. Terminated: 10/18/2017.

U.S. District Court for the Western District of North Carolina (Charlotte). Case 3:16-cv-789.

Retained by **Akerman LLP**, representing the defendant **Zmodo Technology Corporation**. Reviewed Zmodo's preliminary claim construction and invalidity contentions. Reviewed plaintiff's preliminary infringement contentions. Researched material as required. Produced declaration regarding the construction of several key claim terms. Case terminated before trial.

Capital Murder Trial 1 - The State of Texas vs. Antonio Armstrong Jr.

Retained: 10/17/2016. Declared a Mistrial: 4/26/2019.

178th District Court for Harris County (Houston), Texas 77002

Retained by **Collings & Associates AAL**, on behalf of the **Armstrong** (defendant's) family. Inspected the homicide location and the security system equipment located therein. Reviewed all pertinent records and documentation. Generated expert opinion. Testified in front of judge and jury. Cross examined at length by Assistant District Attorney. Trial ended with a hung jury and was declared a mistrial.

Inter Partes Review (IPR) of U.S. Patent 8,473,619, U.S. Patent 8,478,844, and U.S. Patent 8,073,931

Date Filed: 9/30/2016. Terminated: 05/22/2017.

Patent Trial & Appeal Board. PTAB-IPR2016-01919, PTAB-IPR2016-01920, PTAB-IPR2016-01911, PTAB-IPR2016-01916 and PTAB-IPR2016-01909 (Total of Five (5) IPR petitions involving Three (3) patents).

Retained by **Cooley LLP**, representing the petitioner **SecureNet Technologies** to assist in the preparation of 5 IPR petitions covering 3 patents. Assisted in the search, vetting and prioritization of prior art and obviousness references. Generated comprehensive expert declarations for each petition and was heavily involved in the preparation and review of the finalized IPR Petitions.

Inter Partes Review (IPR) of U.S. Patent 7,864,983

Date Filed: 12/4/2015. Terminated: 06/06/2017.

Patent Trial & Appeal Board. PTAB-IPR2016-00285

Retained by **Freitas & Weinberg LLP**, representing the patent owner, **MD Security Solutions**.

Reviewed and analysed relevant material. Provided declaration regarding key technical points.

Reviewed and critiqued patent owner's response to the PTAB. Deposed by attorneys for the petitioning party, RPX Corporation. Received positive feedback from Freitas & Weinberg post deposition.

Patent Infringement - ICN Acquisitions LLC v. Zonoff, Inc.

Date Filed: 11/30/2015. Terminated: 11/6/2017.

U.S. District Court for the District of Delaware (Wilmington). Case 1:15-cv-01109.

Retained by **Morgan Lewis & Bockius LLP**, representing the defendant **Zonoff Inc**. Expediently researched prior art as per (then urgent) request. Reviewed specific claims of '736 and '385 patents in light of identified prior art. Provided opinion with supporting documentation. Advised on subject material and helped clarify technical matters. Case terminated before trial.

Patent Infringement - Iron Gate Security, Inc. v. Lowe's Companies, Inc.

Date Filed: 11/09/2015. Terminated: 11/1/2016.

U.S. District Court for the Southern District of New York (Foley Square). Case 1:15-cv-08814.

Retained by **Hunton & Williams (now Hunton Andrews Kurth) LLP**, representing the defendant Lowe's. Searched for, identified, and prioritized prior art and/or obviousness references on a claim-by-claim basis to determine optimum combination for the generation of an IPR (Inter Partes Review) petition. Prepared expert declaration. Reviewed and assisted with the preparation of the completed IPR Petition. The IPR Petition was not filed as the matter settled out of court.

Patent Infringement - Script Security Solutions, LLC v. AT&T Digital Life, Inc. et al

Date Filed: 3/13/2015. Terminated: 2/19/2016.

U.S. District Court for the Eastern District of TEXAS (Marshall). Case 2:15-cv-00370.

Retained by **Duane Morris LLP**, representing the defendant **AT&T Digital Life**. Reviewed case material. Provided multiple prior art candidates. Generated supporting (invalidity) claim charts. Case settled before trial.

Wrongful Death Civil Suit - C. Lewis-Harris et al v. Interstate Realty et al

Date Filed: 12/31/2014. Terminated: 08/26/2016.

U.S. Circuit Court for Jackson County, MO (Independence). Case 1416-cv-29921.

Retained by **Langdon and Emison AAL**, representing the Plaintiff (**C. Lewis-Harris & S. Payne**) in a Wrongful Death suit. Reviewed all case material. Performed in-depth onsite inspection and testing of the suspect equipment. Completed detailed analysis of equipment and relevant documentation.

Formulated theory of failure mechanisms. Deposed by defendants' attorneys. Matter settled out of court with favorable settlement for plaintiff.

Patent Infringement - Secured Structures, LLC v. Alarm Security Group, LLC

Date Filed: 12/12/2014. Terminated: 9/26/2016.

U.S. District Court for the Eastern District of TEXAS (Tyler). Case 6:14-cv-00930.

Retained by the **Tadlock Law Firm**, representing the plaintiff **Secured Structures LLC**. Reviewed and analysed relevant material as required. Assisted with claim construction matters. Prepared expert declaration. Provided technical expertise and support. Case settled before trial.

Patent Infringement - iControl Networks, Inc. v. Zonoff, Inc.

Date Filed: 9/16/2014. Terminated: 11/6/2017.

U.S. District Court for the District of Delaware (Wilmington). Case 1-14-cv-01199.

Retained by **Morgan Lewis & Bockius LLP**, representing the defendant **Zonoff Inc.** Reviewed the 6 patents in suit, interrogatories, responses, email correspondence, infringement charts and other case related material. Specifically researched and dug up material on a pre-existing two-way RF (Radio Frequency) wireless system (prior art candidate). Discussed possible IPR strategy. Generated multiple claim charts in support of potential IPR(s). Assisted in claim language interpretation. Case terminated before trial.

Civil Litigation - Product Liability (Class Action) –**Controllable On-Site Protection Security Systems Inc v. Telular Corp.**

Date Filed: 08/20/2014. Terminated: 03/12/2018.

U.S. District Court for the Little Rock Division (Arkansas Eastern District). Case 4:14-cv-00487.

Retained by **Mitchell Williams PLLC**, representing the defendant **Telular Corporation** in a class action product liability suit. Reviewed the Telular product hardware and software as required. Interviewed Telular engineers and service technicians. Generated preliminary opinion regarding the Telular products in question. Case settled out of court.

Patent Infringement - Alarm.com Incorporated v. Telular Corporation

Date Filed: 05/20/2013. Terminated: 1/9/2014.

U.S. District Court for the District of Delaware (Wilmington). Case 1:13-cv-00890.

Retained by **Cravath, Swaine & Moore LLP**, representing the plaintiff **Alarm.com Inc.** Reviewed case material. Provided initial support, then this matter was put on hold pending the result of the following related matter.

Patent Infringement - iControl Networks, Inc. v. Alarm.com Incorporated et al

Date Filed: 05/20/2013. Terminated: 1/9/2014.

U.S. District Court for the Eastern District of Virginia - (Alexandria). Case 1:13-cv-00834.

Retained by **Cravath, Swaine & Moore LLP**, representing the defendant (and plaintiff) **Alarm.com Inc.** in this claim / counterclaim case (11 patents in suit). Prepared extensive expert report and related documents. Assisted in rebuttals of other sides expert reports. Performed both infringement and invalidity analysis. Provided multiple prior art candidates. Case timeframe highly accelerated. Trained extensively for deposition. Matter settled out of court.

Patent Infringement - Honeywell International, Inc. v. Nest Labs, Inc. (*Google) et al

Date Filed: 02/06/2012. Terminated: 5/6/2016.

U.S. District Court for the District of Minnesota (DMN). Case 0:12-cv-00299.

Retained by **Fish & Richardson PC**, representing the defendant ***Nest Labs**. Asked to analyze electronic schematics and determine the precise functionality of several key components. Performed comparative analyses. Generated an initial Expert Declaration in 2012 and then a follow up Expert Declaration in 2015. Case settled out of court. *Note: Google acquired Nest Labs during this litigation matter.

Patent Infringement - Honeywell International, Inc. v. 2GIG Technologies, Inc. et al

Date Filed: 11/24/2009. Terminated: 04/07/2011.

U.S. District Court for the Eastern District of New York (Central Islip). Case 2-09-cv-05156.

Retained by **Weil, Gotshal & Manges LLP**, representing the defendant **2GIG Technologies**. Provided expert reports, rebuttals, and support, including prior art candidates and other material as required. Case settled before trial.

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