

John B. Minor



-
- **Inventor / Patent Holder**
 - **Cellular Network Expert**
 - **Communications Expert**
 - **Network Security Expert**
 - **Patent Infringement/Damages Expert**
 - **Lawful Intercept Expert**
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December 2017 – Completed training and certification testing for Cyber Security Forum Initiative Cyber Warfare Division (CSFI-CWD) Defensive Cyber Operations Engineer (DCOE) and Introduction To Cyber Warfare Operations Design (ICWOD). Operational capabilities include mission planning/execution, Threat detection, force protection, response analysis and offensive operations.

June 2017 – The Journal of Digital Forensics, Security and Law, associated with Embry-Riddle Aeronautical University published a double blind, peer reviewed research paper authored by John B. Minor, titled “Forensic Cell Site Analysis: A Validation & Error Mitigation Methodology”¹

March 2017 - United States Court of Appeals for the Federal Circuit affirmed the jury verdict and award of \$30 Million, in the Prism Technologies LLC, Plaintiff-Cross-Appellant v. Sprint Spectrum L.P., dba Sprint PCS, Defendant, patent infringement and damages case based on the Court's declaration that the trial testimony of John B. Minor correctly interpreted the scope of the claims and that his considerable experience adequately qualified him to opine on damages.²

April 2017 - Keynote Address for CTSC International Counter Espionage Conference – “Rise of the Machines: Machine Virtualization and The Impact on TSCM Inspection Protocols”. Additional technical presentation titled “The Impact of The Evolution from Circuit Switched to Packet Switched Communications on Eavesdropping Detection” and “Adding a Remote Network Probe for Remote Spectrum Surveillance and Monitoring (RSSM), An Overview”

September 2016 - Presented at the 2016 Espionage Research Institute International Counter Espionage Conference in Washington, D.C., on the topics of: "A Quantum of Solace - An Introduction to Photonic Intercept Tradecraft - Essential Tools for Detection & Mitigation" & "Ghosts & Gainers - Photonic Intercepts - A Primer on How to Read & Interpret an OTDR Trace"

¹ <http://commons.erau.edu/jdfsl/vol12/iss2/7/>

² <http://www.ca9.uscourts.gov/sites/default/files/opinions-orders/16-1456.Opinion.3-2-2017.1.PDF>

April 2016 - Keynote Address for CTSC International Counter Espionage Conference 2016 –
“One Step Ahead: Tapping the Worlds Photonic Networks”

September 2015 – Presented at the 2015 Espionage Research Institute International Counter Espionage Conference
In Washington D.C., on the topics of “Detecting and Mitigating Cellular Carrier MITM Intercepts” and
“Detecting and Mitigating a Photonic Network Intercepts”

August 2015 - Patent Awarded for a Process to Validate Cellular Carrier Records Accuracy and Cellular Carrier
Records Signals Analysis and Device Location Mapping Accuracy

June 2015 - Jury verdict of infringement against Sprint Spectrum and a \$30 Million damage award following
a six-day jury trial in Omaha during which John B. Minor's testimony was rendered for infringement and damages.

In today's litigation environment, digital evidence is pervasive and communications networks are more complex
than ever before. A team member with high-order technology and communications network subject matter
expertise is essential. Anyone aspiring to provide expert opinions regarding complex cellular network
functionality, to conduct electronic evidence reviews, or to track communicating cellular devices or otherwise
render expert opinions regarding common activities such as email and texting must possess communications
technologies expertise. Training and depth of experience have led to my participation as an expert in a diverse
variety of projects and travel to over 50 countries and 49 of the United States of America.

RECENT MEDIA COMMENTS / QUOTES / BOOK MENTIONS

- [Fox News – Wireless warning: How New York used smartphones in hunt for bombing suspect](#)
- [Fox News – Paris Attack](#)
- [National Public Radio – This American Life - Serial Season 1 – Episode 10](#)
- [Fox News](#)
- [USA Today](#)
- [Washington Post](#)
- [Las Vegas Review Journal](#)
- Book - [All American Murder](#)

RECENT PROJECTS OF INTEREST

- Federal Court Qualified as Cellular Network, Network Security, Communications & Damages Expert –
Rendered Infringement and Damages Testimony in Cellular Carrier Patent Infringement Cases Against AT&T and
Sprint
- CSFI (Cyber Security Forum Initiative) - csfi.us - Expert Team Member - Unnamed Cyber Warfare Project
- Expert – Retained by Manhattan Federal Public Defenders in the “Cannibal Cop” case (United States v Gilberto Valle)
- Authored the book titled “Cellular Signals Analysis & Mobile Device Location Tracking - Acquisition, Analysis &
Validation of Evidence” – Publication release in 2018
- Patent Awarded for a Process to Validate Cellular Carrier Records Accuracy and Cellular Carrier Records Signals
Analysis and Device Location Mapping Accuracy
- Keynote Address & Technical Presentations at the 2016 CTSC Counter Espionage Conference held at the NAV Centre
on the Subjects of “One Step Ahead: Tapping the Photonic Networks of the World”, “Detecting and Mitigating
Photonic Network Intercepts: Needle in a Haystack?” and “Ghosts & Gainers: Photonic Intercepts – A Primer on
How to Read & Interpret an OTDR Trace”

- Presented at the 2015 Espionage Research International Counter Espionage Conference in Washington, D.C., on the Subjects of “Detecting and Mitigating Cellular Man-in-the-Middle Attacks” and “Detecting and Mitigating Photonic Network Intercepts”
- Expert - Testified in Ty Law (3 Time NFL Super Bowl Player) Criminal Case – Orlando, Florida
- Expert - Cellular Location Based Services (LBS) Patent Infringement Claims Litigation
- Expert - Unlawful Federal Wiretap Act/Access to Stored Communications Litigation
- Expert – Over 80 Murder Cases for Defense & Prosecution – Cellular Location Tracking – Digital Evidence Review
- Expert - Performed or Oversight of Drive Testing Cellular Network to Validate Coverage – Criminal / Civil Cases
- Expert - Civil Wrongful Death Litigation – Plaintiff & Defendant – Cellular Location Tracking – Digital Evidence
- Expert - Major Corporate Fraud - Theft Case in U.S. Federal Court – Cellular & Computer Digital Evidence
- Expert – Fiber Optics Consulting for U.S. Federal Bankruptcy Court
- Expert – Civil Rights – Unlawful Search & Seizure Case
- Expert – Home Mortgage Loan Industry Falsification of Foreclosure Case
- International University Bomb/Kidnapping Threat Case - Tracked Perpetrator Emails to Source Geographical Locations
- Baltic Countries Sourced Hacking Attack in U.S. - Live Digital Communications Tracking/Interdiction
- Provided Sensitive Site Exploitation Support to U.S. Special Forces Teams
- Major Petrochemical Corporation – Cyber Warfare Communications Attack, Security Response & Forensic Analysis
- Security Vulnerability Assessment / Disaster Recovery Planning / Emergency Operations Planning – Various Undisclosed Sites to meet Department of Homeland Security/EPA requirements
- Cell Phone Live Location Tracking Support for Covert National Police Operations
- Fiber Optics Communications Expert for Texas Tech University Health Sciences Center ATM Backbone Design/Implementation Project for over 6,000 nodes linking facilities over 600 miles distance
- Fiber Optics Expert in Major Refinery Disaster (Explosion) Recovery/Rebuild
- Fiber Optic Communications Expert for new FEDEX Jet Fuel Terminal- Memphis, Tennessee
- National Petroleum Reserves Gas Pipeline Storage Instrumentation/Communications Design & Implementation—Fiber Optic / Wireless PLC/SCADA Networks – Alabama, Kansas, Iowa, Louisiana, Oklahoma, Texas, Colorado, Wyoming

AREAS OF EXPERTISE

- Testifying Patent Infringement Expert – Cellular Carrier Core Network / Location Based Services (LBS/LCS)/ Internet Tier1, Tier2, Tier3 Networks / Network Security
- Testifying Patent Damages Expert – Cellular Carrier Core Network / Internet Tier1, Tier2, Tier3 Networks / Network Security
- Federal & State Court Qualified Expert Technical Witness –
 - Communications Technologies
 - Cell Phone Location Determination –
 - Federal Unlawful Access to Stored Communications Act
 - Federal Wiretap Act
 - Daubert Tested Expert Testimony
- Cell Phone/GPS Signals Analysis – Historical / Live / GPS / Trilateration –
 - Multilateration Location Tracking, Cell Carrier Logs & Engineering/RF
 - Propagation Maps Analyst, Drive Testing, Technical Surveillance Counter Measures (TSCM)/Counter Espionage
- Photonic Networks / Fiber Optics Expert, Technical Surveillance Counter Measures (TSCM) Counter Espionage, Technical Witness, Network Design Analysis, Link Loss Analysis, Certifications

- International Casework Specialist - Fraud, Digital Tracking, Counter Intelligence, Counter Espionage Digital Conspiracy / Social Network Analyst
- Cyber Security Forum Initiative Cyber Operations including Cyber Warfare Division (CSFI-CWD) Defensive Cyber Operations Engineer (DCOE) Including Defensive and Offensive Cyber Operations
- Live Tracking of Digital Communications - Technical Services Counter Measures (TSCM)
- Social Network Analysis
- Certified Forensic Examiner – Cell Phones, Computers, Embedded Memory Chip Devices, Web Site / FTP servers, Digital Audio and Video Players
- Security Vulnerability Analyst - Sandia Labs' Risk Assessment Methodology (RAM) Certification
- Chief Executive Command Authority Experience - Emergency Operations Center Disaster Response

RESEARCH

Over 20,000 hours research in the following subject matter areas:

- Development of an early 1990's wireless router to a commercially viable product.
- Researched investigation and litigation based functionality of Location Services (LCS) aka Location Based Services (LBS).
- Identification of location privacy overrides occurring during cellular subscriber device usage.
- Analyzed how historical, near real-time and real-time cellular carrier subscriber device location tracking is performed by cellular carriers.
- Researched and documented historical, near real-time and real-time analysis of cellular carrier subscriber device location tracking as performed by cellular carriers
- Researched, analyzed and documented cellular carrier evidence production to determine if this evidence is electronic evidence and devise a test for determination and spoliation.
- Research, development and patent of an error mitigation and validation methodology for the analysis of historical cellular carrier call detail records and cell site location records evidence.
- Research, development and patent of an error mitigation and correction protocol for centroid based near real-time and real-time cellular carrier subscriber device location tracking.
- Formulation of communications interception and disruption tradecraft, detection and mitigation techniques within cellular carrier and Internet network infrastructures.
- Research, development and patent of a photonic intercept detection and mitigation methodology.
- Inquiry into and documentation of lawful intercept techniques and research into intercept leakage vulnerabilities.

CERTIFICATIONS, PROFESSIONAL TRAINING, EDUCATION

Certifications

Certified Defensive Cyber Operations Engineer (DCOE)
Cyber Security Forum Initiative – Cyber Warfare Division (CSFI.us)
December 2017

Certified Computer Examiner (CCE)
International Society of Forensic Computer Examiners, License 716
May 2007

Certified Cell/GPS Signals Analyst (CSA)
Paraben Corporation
October 2007

Certified Steganography Examiner (CSE)
Steganography Analysis and Research Center
March 2007

Risk Assessment Methodology (RAM)
Sandia Labs/AWA
April 2003

Certified Network Engineer (CNE)
Novell
January 1991

Professional Training

Cellular Carrier Network – Radio / Air Interface Training

Espionage Research Institute International (ERII) Technical Surveillance Counter Measures Annual Conference
2015 - Radio Frequency Emitting Device Detection and Counter Measures Techniques

Espionage Research Institute International (ERII) Technical Surveillance Counter Measures Annual Conference
2015 - Presented on the topic of Cellular Carrier Man in the Middle (MITM) Attack Detection & Mitigation

CTSC – International Counter Espionage Conference 2016 – Cellular Carrier & Wireless Standards

CTSC – International Counter Espionage Conference 2016 – Technical Surveillance Counter Measures –
Wireless / Air Interface Device Intercept Detection & Mitigation Techniques

CTSC – International Counter Espionage Conference 2016 – Locating Cellular Radio Frequency Emitting Devices

Galtronics 2015 - Why Antenna Selection is Critical to Wireless Deployments

NetNumbers, Inc. 2014 - Redefining the Signaling Landscape to Deliver Service Agility (Titan CSRC)

Syniverse 2014 – RoamMonitor Review / Certification

EXFO 2015 - Optimizing Small Cells Deployment through Complete Automation and Analytics

EXFO 2015 - Mobile VoLTE: Impact on Operator Network Planning and Revenue

EXFO 2015 - Customer Experience Driven Troubleshooting Poor Cellular Network Performance

Agilent Technologies 2013 – Advanced Passive Intermodulation (PIM) Test/Measurement System

TE Connectivity 2013 – Building Smarter Small Cell Networks – The Role of DAS in Mobile Networks

iBwave 2015 – Connecting the Corporate HQ – How to Overcome Interference, Signal Overlap & Containment and Architectural Challenges

iBwave 2015 – Deploying High-Density Wireless Networks for Public Venues

iBwave 2014 - Delivering a First-Class Wireless Fan Experience at the Big Game – Super Bowl Cellular Coverage

iBwave 2014 - Indoor WI-FI & LTE: Co-Existence of Wireless Technologies in the Healthcare System

iBwave 2014 - The 3 C's – Carrier & Capital Coordination

iBwave 2013 - Designing Seamless Networks in Subway Systems

iBwave 2013 - Passive Inter-Modulation (PIM) - In-Building System Design & Installation Strategies for LTE

Rural Telecommunications Group – Nokia Siemens Networks – Pario Solutions 2011 –
LTE Technical Solutions for Rural Wireless Carriers

RCRWireless 2015 - Investing in Heterogeneous Networks: Network Planning, Optimization and ROI

Qualcomm UMTS University - Cellular Communications Training

Evolution of Wireless Communications 1G to 3G

WCDMA Network Planning & Optimization

UMTS/WCDMA Network Planning

UMTS/WCDMA Physical Layer

UMTS/WCDMA Radio Interface Protocols

Qualcomm CDMA University - Cellular Communications Training

Introduction to CDMA

Fundamentals of Wireless and CDMA

Qualcomm Wireless Academy

LTE Fundamentals for Engineers

LTE Advanced Training

Qualcomm

The Promise of 5G mmWave – But How Do We Make It Mobile?

Cellular Carrier Network Infrastructure – Backhaul / Photonic Network Infrastructure Training

Espionage Research Institute International (ERII) Annual Conference 2015 - Technical Surveillance Counter Measures Training – Presented on the topic of Photonic Network Intercept Detection and Mitigation

CTSC – International Counter Espionage Conference 2016 – Cellular Carrier & Wireless Standards

CTSC – International Counter Espionage Conference 2016 - Technical Surveillance Counter Measures Training – Presented on the topic of “Detecting and Mitigating Photonic Network Intercepts: Needle in a Haystack?”

CTSC – International Counter Espionage Conference 2016 - Technical Surveillance Counter Measures Training – gave the keynote address on the topic of “One Step Ahead – Tapping the Photonic Networks of the World”

CTSC – International Counter Espionage Conference 2016 - Technical Surveillance Counter Measures Training – Presented on the topic of “Ghosts & Gainers: Photonic Intercepts – A Primer on How to Read & Interpret an OTDR Trace”

EXFO 2014 – Deploying and Assuring World-Class Wireless Backhaul (ITU-T Y.1564 – (Fiber Optics) Ethernet Service Activation Test Methodology / SLA/QoE/QoS Monitoring)

EXFO 2014 - Is Your Network Ready for Raman Amplifiers (Fiber Optics Pumps and Amplifiers)?

EXFO 2014 – 400G Technologies - The New Challenges That Lie Ahead

EXFO 2014 – High-Speed Testing Beyond 100G

EXFO 2014 - HetNet Cell-Site [Fiber Optic] Testing for Greater Connectivity and Speed– Backhaul Deployment Phases

Ciena 2015 - Trans-Pacific Submarine Cable Market Update, and Advances in Coherent 100G

Ciena 2015 - Small Cell Technology, Big Business Opportunity (Deployment Models & Costs)

Ciena 2015 - High-capacity, Economic Agility for Today's Web-scale World (Cellular Carrier Fiber Backhaul)

Satellite Communications Certification – Hughes, Dallas

Lucent Technologies Fiber Optics Training/Certification

Microwave Communications Certification – Microwave Networks, Houston

Cisco IOS, Internetworking Design and Implementation – Cisco, San Jose, California

Checkpoint Firewall One Certification – UUNET, Falls Church, Virginia

Internet Communications Certification – UUNET NOC, MAE East (Falls Church/Vienna), Virginia

Asynchronous Transfer Mode (ATM) Design and Deployment Certification – Synoptics/Cisco – San Jose, California

Siecor Corning Fiber Optics Design/Implementation Certification – Dallas/Ft. Worth

Networking Technologies & Computer Hardware Manufacturers Certifications– San Francisco Bay/Silicon Valley, California

Networking Technologies Certification – Certified Network Engineer (CNE) Novell

Cellular Carrier Network Infrastructure – Call Detail Records / Location Based Services Training

Qualcomm UMTS University - Cellular Communications Training

WCDMA (UMTS) End-to-End Location Based Services – AT&T, T-Mobile & Many Other Carriers Worldwide

Qualcomm CDMA University - Cellular Communications Training

CDMA2000 Cellular End-to-End Location Based Services –

Sprint, Verizon, Virgin Mobile & Other Cell Phone Carriers Primarily in the USA

Telecoms 2014 - Ride the Wave: Managing the Diameter Signaling Tsunami

National Law Enforcement and Corrections Technology Center First Responder Communications (NIJ funded) – An Introduction to Personnel Precision Location Technology & Its Role in Criminal Justice

Cell Phone/GPS Signals Analysis Examiner Training / Certification—Paraben - Washington, DC

Forensic Analytics – Forensic Cell Site Analysis Training

ISS World Lawful Intercept Conference, Washington, D.C. 2010

Accurate Location Technologies
Dana Sugarman, Director, Verint Systems

Best Location, Surveillance and Intercept Best Practice “Guru Panels”
Steve O’Neill, VP, TruePosition
Bhavin Shah, Director of Marketing and Business Development, Polaris Wireless
Greg Kopchinski, Director, Product Management, Bivio Networks
Yochai Corem, Product Manager, Verint Systems
Ori Nurick, Director of Products, NICE Systems

From ‘Where’ to ‘Who and What’ Using Polaris WLS to Determine Who the Targets are and What They are Doing
Bhavin Shah, Director of Marketing and Business Development, Polaris Wireless

Overview of Location Technology for Mission Critical Application
Steve O’Neill, VP, TruePosition

Effective Location-Aware Data Capture & Analysis for a Mobile World”
Greg Kopchinski, Director, Product Management, Bivio Networks

Network / Internet Security Training

Cyber Security Forum Initiative Cyber Warfare Division (CSFI-CWD) Defensive Cyber Operations Engineer (DCOE) Certification

Cyber Security Forum Initiative Cyber Warfare Division (CSFI-CWD) Introduction To Cyber Warfare Operations Design (ICWOD) Certifications

Mobile / Techno Security Forensics Conference 2011-2018 – Myrtle Beach, South Carolina

PhishMe 2014 – Resurrection of the Data Entry Phishing Attack

HTCIA 2014 - Verizon DBIR - Current Trends in Cyber Breaches

DEF CON 21 – 2013 Social-Engineer Capture the Flag Results - Penetration Testing

SANS Institute 2014 - Security for Industrial Control Systems including PLC’s
SANS Institute 2012 - Finding Unknown Malware

Black Hat 2015 - Accelerate Your Cybercrime Investigations with OSINT
Black Hat 2014 – Point Of Sale (POS) Malware
Black Hat 2013 - Hacking Appliances: Ironic Exploits in Security Products
Black Hat 2012 – Las Vegas Malware Edition
Black Hat 2012 – Security Evaluation – You’re Doing it Wrong
Black Hat 2012 – Emerging Threats: Anonymous and Occupy
Black Hat 2011 - Privacy on the Internet
Black Hat 2011 - HTTP Parameter Pollution Vulnerabilities in Web Applications
Black Hat 2011 - Android Security Overview, Threats, and Best Practices
Black Hat 2011 - Forensics: Beyond files undeleting: OWADE
Black Hat 2011 - A SamuraiWTF intro to the Zed Attack Proxy
Black Hat 2011 - Challenges and result in automatic malware analysis and classification
Black Hat 2011 - A SamuraiWTF intro to the Zed Attack Proxy: Part2
Black Hat 2011 - Abu Dhabi 2011 Preview: Force Multipliers on the Modern Battlefield
Black Hat 2011 - The State of Security Vulnerabilities in 2011

Alien Vault Labs Training 2013 – PCI DSS (Payment Card Industry Data Security Standards)

NetWitness Investigator Introductory Training
NetWitness Investigator Advanced Training

Digital Evidence Forensics Training

Mobile / Techno Security Forensics Conference 2011-2014 – Myrtle Beach, South Carolina

HTCIA 2013 - Network Forensics with Wireshark Network Sniffer

International Association of Crime Analysts 2013 – Spatial Statistics in Crime Analysis: Using CrimeStat III
International Association of Crime Analysts 2013 – Problem Analysis
International Association of Crime Analysts 2013 – Data Management with Microsoft Access

HTCIA 2013 - Network Forensics with Wireshark (Heartland Chapter)

SANS Institute 2012 – HTCIA & COINS: Super Timeline Analysis
SANS Institute 2012 – Memory Forensics for Incident Response
SANS Institute 2012 – Conducting a Legal Investigation in Social Media: How to Do; How Not to Do It

Black Hat 2012 – Carve for Records Not Files

Black Hat Europe 2011 – Barcelona, Spain – Intelligence Gathering, Penetration Testing, Vulnerability Exploitation, Security Event Management - Briefings/Training - Maltego Intelligence Gathering Usage, Tactical Exploitation, The Exploit Laboratory, Hacking by Numbers: Combat Training

Advanced 3D Animation for Scene Reenactment/Advanced AutoCAD – Autodesk, San Rafael, California

Cell Phone Seizure Certification—BK Forensics—Austin

Certified Computer Examiner (CCE) International Society of Forensic Computer Examiners
European Cell Phone Forensic Examination Techniques—French Ministry of Defense—
Gendarmerie National Forensic Research Institute (IRCGN)

Guidance Software 2015 - Streamlining Malware Incident Response with EnCase

Cell Phone Memory Chip Removal & Examination Techniques—
German National Police Bundeskriminalamt Mobilfunkforensik
International Cell Phone Forensics & Evidence Recovery Techniques—Forensic Telecommunications Services, Ltd., London— Chicago Police Academy
Certified Steganography Examiner—SARC—Atlanta

National White Collar Crime Center (NW3C) / Bureau of Justice Assistance (BJA) – Cyber Crime Fighting II

Cyber Crime Summit 2006-2007 Participant – Kennesaw University

Digital Forensics Training—Access Data – Dallas Police Headquarters

Communications Intercept Training

Attendee/Presenter – CTSC International Counter Espionage Conference – NavCentre, Canada 2016-2017
Attended Various Technical Surveillance Counter Measures Education Presentations –

Keynote Presenter

Attendee/Presenter – Espionage Research Institute International Conference – Washington, D.C. 2015-2016

Attended Various Technical Surveillance Counter Measures Education Presentations -

Director of National Intelligence Open Source Intelligence Conference Attendee/Participant 2008—
Washington, DC

ISSWorld/Telestrategies Communications Intercept Conference/Training 2010 – Washington, D.C.

Lawful Intercept Training – ISS World / Telestrategies

Target Identities in Network Communications – Hard to Obtain?

Challenges of Webmail Interception and Analysis

Intercepting Voice and other Traffic from Instant-Messaging and Social-Networking Services

Reducing the Cost of Managing Warrants and Subpoenas

Automatic Discovery and Interception of International Leased Line Services

Innovative Investigation Solutions in a Complex IP World

Turning Location Data into Meaningful Intelligence

Overview of Location Technology for Mission Critical Application

Effective Location-Aware Data Capture & Analysis for a Mobile World

UMTS Monitoring and Interception

A Stealth, Spyware-Based System for Attacking, Infecting and Monitoring Computers and Smartphones

Gaining OSINT Insight Through Analytics

Biometric Speaker Spotting enables new horizons for Mass Voice Interception

Realistic Probabilities in Modern Signals Intelligence

Cyber Money Laundering

ISS World - Facebook 101: Tools, Tricks & Techniques Investigators Need to Know – 2013

ISS World - Weaponized Information: What It Is, Why You Need It and How It Works – 2013

ISS World - Facebook Facts for Criminal Investigators and Analysts - 2011

ISS World - Understanding Mobile Wireless Infrastructure and Lawful Interception - 2010

ISS World - Understanding the Internet and Lawful Interception for Law Enforcement and Intelligence Analysts - 2010

ISS World - Understanding Wireline Telecom Infrastructure and Lawful Interception - 2010

ISS World - Enterprise Investigations Involving Packet Capture - 2010

ISS World - Tools for Identifying Patterns of Malicious Employee Behavior - 2010

Specialized Tactical & Combat Training

Security Solutions International - TTP's and the Threat of Explosives - March 2011

Director of National Intelligence Open Source Intelligence Conference Attendee/Participant 2008—
Washington, DC

General Training

Licensed Private Investigator— Texas DPS-PSB License

Risk Assessment Methodology Training and Certification - Sandia Labs - Denver

Computer & Information Technology Law Institute—University of Texas School of Law—Austin

Emergency Management Administration Certification – DPS Headquarters, Austin, Texas

Caseflow Management, Case Preparation, Adjudication and Enforcement Training

- National Association for Court Administration (Served as Board Member 1977-1981)

Law Enforcement Academy Training – Odessa, Texas Police Department

Formal Education

Odessa College, Odessa, Texas - Computer Science – [Cobol Programming, Assembly Language Programming, IBM 360 Mainframe Systems Operations]

PROFESSIONAL HISTORY

Owner/Operator/Trainer - Signals Analyst Academy – SignalsAnalyst.com
Communications Intercept Tradecraft, Detection, Mitigation for
Technical Surveillance Counter Measures Professionals
Developer / CEO / President – Qalypsis, LLC - Qalypsis.com
Intellectual Property Licensing and Patent Portfolio R&D, 2015-Present
JohnBMinor.com – Communications Expert – Expert Technical Witness, 2000-Present
Atwater Enterprises - Digital Forensics Director, 2004-2010
Owner / Operator—Airlinq Wireless Internet Service, 2004-2011
Developer / CEO / President – RadlinQ Corporation, 1993-1996
Owner / Operator - The Technology Education Center & Prometric Certification Testing Center,
1996-2001 – El Paso, Texas
Established CTA / Communications Intelligence Associates, Inc., 1986 to Present –
Communications Consulting, Digital Forensics Examiners, Security Consulting
Mayor of Odessa, Texas, 1984-1986
Established Micro Research, 1982 to 1988 – Microcomputer Consultancy specializing in
IBM PC software development and Microcomputer Communications Networking
Amicus Curiae Award Recipient—Municipal Court, Odessa—1979
Co-Founder Texas Courts Consulting Service—1978
Courts / Law Enforcement Administration –
2nd & 22nd Judicial Districts of Central Texas, Austin/San Antonio Area & Odessa, Texas Area,-
Texas' first rural courts automation projects—1974-1983

ARTICLES & PUBLICATIONS

Author of “Forensic Cell Site Analysis: A Validation & Error Mitigation Methodology”, in The Journal of Digital Forensics, Security and Law, associated with Embry-Riddle Aeronautical University published a double blind, peer reviewed research paper ³
Author of the Book titled “Cellular Signals Analysis & Mobile Device Location Tracking - Acquisition, Analysis & Validation of Evidence” 2018, Covering Historical Cellular Call Detail Records, Live Cellular Device Tracking and Key iPhone Location Evidence
Cellular Handset Location Privacy - It May All Be About the Privacy Override Indicator – 2012
U.S. 4th Amendment Rights & Cellular Handset Location Privacy - Is it all about the Privacy Override Indicator & LIRAuth/LIRMode? – 2012
Cellular Carrier Handset Location & Call Detail Records Error Rates - A Symptomatic Interim Overview Study – 2012
Cell Phone “Pinging” for Real-Time Location Tracking: Fact or Fiction, *World Association of Detectives Beyond Global Journal* 2011
A Litigators Guide to Cell Phone Location Evidence Part 5 – The Role of Cell Phone Evidence in Missing Persons/Homicide Cases
A Litigators Guide to Cell Phone Location Evidence Part 4 – Understanding Cell Phone E911 Calls
A Litigators Guide to Cell Phone Location Evidence Part 3 – Centroids & Working Range
A Litigators Guide to Cell Phone Location Evidence Part 2 – Understanding Live & Historical Cell Phone Location Tracking
A Litigators Guide to Cell Phone Location Evidence Part 1 – Understanding How a Cell Phone Call Works
A Litigators Guide to Preserving & Acquiring Cell Phone Carrier Evidence – Subpoena, Court Order or Search Warrant
iPhone Evidence: The New Source, *Professional Investigator Magazine* February 2010
Preserving and Acquiring Cell Phone Carrier Evidence, *Professional Investigator Magazine* December 2009
What's in a Domain Name? Leads & Evidence 2009
Does Cell Phone Tracking Really Work? 2009
How Obscure Records Maintained By Cell Phone Carriers Can Make or Break a Case 2009

³ <http://commons.erau.edu/jdfsl/vol12/iss2/7/>

How Cell Phone Subscriber Activities Are Tracked & Logged By the Cell Phone Carrier 2009
Anatomy of a Cell Tower for Investigators & Attorneys, 2009
Summary—Preserving & Acquiring Cell Phone Carrier Evidence 2009
Preserving & Acquiring Cell Phone Carrier Evidence 2009
iPhone Evidence? Empowering the Investigator 2009
Investigation of Collusion, Conspiracy, Terrorist Networks, & Criminal Networks:
 Digital Evidence Linking Common Contacts, Devices, & Activities 2008
Digital Evidence—A New Frontier in Latent Evidence 2007
Courtroom Evidentiary Animation Video, PowerPoint and Poster Board Presentations, 1990-Present
A Guide for Handling Misdemeanors in Justice and Municipal Courts – Keen/ Minor, 1979

LECTURES & PRESENTATIONS

Keynote Address for CTSC International Counter Espionage Conference 2017 “Rise of the Machines: Machine Virtualization and The Impact on TSCM Inspection Protocols”.

“The Impact of The Evolution from Circuit Switched to Packet Switched Communications on Eavesdropping Detection” CTSC International Counter Espionage Conference 2017

“Adding a Remote Network Probe for Remote Spectrum Surveillance and Monitoring (RSSM), An Overview” CTSC International Counter Espionage Conference 2017

“A Quantum of Solace - An Introduction to Photonic Intercept Tradecraft - Essential Tools for Detection & Mitigation” Espionage Research Institute International Annual Conference 2016

“Ghosts & Gainers: Photonic Intercepts – A Primer on How to Read & Interpret an OTDR Trace” Espionage Research Institute International Annual Conference 2016

Keynote Address “One Step Ahead: Tapping the Photonic Networks of the World” CTSC International Counter Espionage Conference 2016

“Detecting and Mitigating Photonic Network Intercepts: Needle in a Haystack?” CTSC International Counter Espionage Conference 2016

“Ghosts & Gainers: Photonic Intercepts – A Primer on How to Read & Interpret an OTDR Trace” CTSC International Counter Espionage Conference 2016

“Detecting and Mitigating Cellular Carrier MITM Intercepts” Espionage Research Institute International Annual Conference 2015

“Detecting and Mitigating Photonic Network Intercepts” Espionage Research Institute International Annual Conference 2015

“Empowering the Litigation Team - Preserving & Acquiring Cell Phone Carrier Evidence”
 Texas State Bar Continuing Education – 2010

“Preserving & Acquiring Cell Phone Evidence” - Paralegal Division of the State Bar of Texas - 2010

“Empowering the Investigator—Cell Phone Tracking & Cell Phone Evidence”
 Texas Association of Licensed Investigators 2009

“Managing Discovery of Electronic Information”—Paralegal Division of the State Bar of Texas 2008

“Digital Evidence - A New Frontier in Latent Evidence”
 Presentation to Texas Association of Licensed Investigators 2007

“Lawful Intercepts - Digital Forensics 18 U.S.C. § 2511/2701”
 Presentation to Texas Association of Licensed Investigators 2005

“Terrorist Threat Realities in Our Communities” - 7 New Mexico Community Regional Meetings 2003

“Homeland Security Threat Potential to Utilities Infrastructure” to NMRWA 2003

“Impact of the Internet” Presentation to El Paso Paralegals Association 1997

Technology and Communications Presentations to Government and Business 1990-Present

PATENTS - PRODUCT DEVELOPMENT

Software

Designer/Author/Manufacturer - Professional Finance Tools Template for VisiCalc / Lotus 1-2-3, 1982

Hardware / Network Equipment

Designer/Manufacturer - RadlinQ WL Series Wireless Router, 1993 (see <http://JohnBMinor.com/RadlinQWL.pdf>)

Patents

Patent # 9113307, A Process to Validate Cellular Carrier Records Accuracy and Cellular Carrier Records Signals Analysis and Device Location Mapping Accuracy

International Patent Pending – Error Detection and Mitigation Methodology for Forensic Cell Site Analysis

Patent Pending – A Process to Detect and Mitigate Photonic Network Intercepts

Patent Pending – A Process to Establish Residency Duration of an Alien Immigrant

Patent Pending – A Process to Perform Error Correction in Cellular Carrier Network Location Based Services

Centroid to Physical Address Translation

PROFESSIONAL ASSOCIATION MEMBERSHIPS

International Society of Forensic Computer Examiners ([ISFCE](#))

Institute of Electrical and Electronics Engineers ([IEEE](#)) Photonics Society & Communications Society Member

INTELLENET International Intelligence Network ([INTELLENET](#))

Espionage Research Institute International ([ERII](#))

Cyber Security Forum Initiative ([CSFI](#))

International High Tech Crime Investigators Association ([HTCIA](#))

World Association of Detectives ([WAD](#))

International Association of Crime Analysts ([IACA](#))

[ShadowServer Foundation](#)

[The Internet Society](#)

National Association for Court Administration (NACA) Director, 1977-1981

CONTACT INFORMATION:

John B. Minor

Communications Expert

Analysis · Interception · Disruption

Email: jminor@johnbminor.net

Office Phone Direct: (800)725-2726 or Mobile Phone: (432)553-6666

Web: JohnBMinor.com Qalypsis.com SignalsAnalyst.com

Linkedlin: [John B. Minor](#)