

Brad Thomas Ulrich

Computer Scientist Vice President, Health IT and Audits

Quandary Peak Research
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EMPLOYMENT

Director/Vice President, Health IT and Audits Division

Nov 2017 – Present

Quandary Peak Research, Nashville, TN

- Consulting for major Health IT software vendors and the department of Health and Human Services (HHS), the ONC (Office of National Coordinator for Health IT) and the U.S. Department of Justice on matters involving Health IT software compliance and best practices, including specific guidance on quality management systems, SDLC, risk management, patient safety, software architectures, DevOps, and software usability.
- Directing an 8-person team of Health IT software and informatics experts in analyses and audits related to Meaningful Use/CEHRT compliance, quality and risk managements systems, and best practices for managing patient safety in IT.
- Assisting Health IT vendors in designing policies and procedures that combine agile processes with regulatory governance methods.
- Providing software process and code quality reviews for private companies and the U.S. Government, including the Consumer Financial Protections Bureau (CFPB), the department of Health and Human Services (HHS) and the ONC (Office of National Coordinator for Health IT).

Software Expert Consultant

June 2012 – Present

Quandary Peak Research, Los Angeles, CA

- Providing sound and informative software reviews, audits and expert opinions covering industry standards, knowledge, and practices in computer software.
- Experienced in expert reports, depositions, independent audits, and code review covering a range of professional software subjects including: safety and regulatory compliance, patents, trade secrets, defect and code quality analysis, contract disputes, and software project cost and impact analysis.

- Providing software process and code quality reviews for private companies and the U.S. Government, including the Consumer Financial Protections Bureau (CFPB), the department of Health and Human Services (HHS) and the ONC (Office of National Coordinator for Health IT).
- Industry expertise in Health IT and electronic health record (EHR) software, smartphone and mobile apps, embedded systems, cellular devices, signal processing and algorithms, gaming, industrial process control, enterprise web applications, graphics and media.
- Offering law firms, and private and government agencies clear and effective software code analysis in languages and platforms including Java, C++, Python, HTML/CSS, Android, Objective C, PHP, C#, Microsoft .NET, and Web 2.0 APIs.
- Provided expert analysis opinions and testimony in trade secret and contract dispute cases for Fortune 500 companies, hospitals, and municipalities, covering subjects such as project management, industry standards, project costs, technical impacts, and code quality.
- Successfully delivered code review, infringement analysis and expert witness testimony in numerous patent cases involving mobile applications and smartphones, internet routers, financial software, industrial and machinery controls and gaming systems.
- Provided consultation in several contract dispute cases involving electronic health record (EHR) software installations at local and community hospitals, representing both hospitals and EHR companies.

Software Developer

Feb 2006 – Nov 2017

Independent Contractor, Nashville, TN

- Lead software engineer on a team developing microcontroller-based motorized control equipment for a zipline gear company.
- Developed motion control system for motor control and vibration sensing for a custom vibration table
- Contracted to successfully develop and release a web-based financial trading software plug-in for eSignal to provide enhanced trading data download functionality; utilized PHP/MySQL.
- Ported a suite of trading system tools and financial trading indicators from Java to C++.
- Developed, tested and deployed on-schedule a major rebuild of the member website of the American College of Neuropsychopharmacology (ACNP) using ASP.NET and Microsoft SQL including integration with iMIS donor software.
- Developed, tested, and released an interactive drawing and markup tool for medical applications in VB.NET for Ulrich Medical Concepts, Inc's. Team Chart Concept (TCC) software.

Chief Technology Officer

Nov 2011 – Apr 2013

Genesis Health Technologies LLC, Paducah, KY

- Managed the commercial launch of Genesis' flagship products and technology services for diabetes healthcare: the Genesis Blood Glucose Meter (BGM) - a cellular-enabled blood glucose monitor for home use; and the Genesis Health Record Systems (GHRS) - a web- and mobile app-based system for real-time diabetes management.
- Developed and implemented internal processes for compliance with federal FDA Quality Management Systems (QMS) guidelines through various software documentation and risk management controls.
- Developed and submitted final Software Documentation for official FDA 510(k) submissions for both the Genesis BGM and Genesis BGMS.
- Managed a technical team in the regulatory testing and device certification requirements for the Genesis BGM, including FCC testing and Verizon device certification.
- Successfully managed the build and launch of the GHRS, including recent improvements for enterprise-level professional use and cloud-based APIs to Verizon eBiz and nPhase.

Project Manager

Feb 2011 – Nov 2011

Genesis Health Technologies, Paducah, KY

- Managed software development team and delivered to client on-time a Blackberry mobile phone application for the gDrive™ Blood Glucose Meter; implemented a phone-to-meter two-way USB control interface.
- Assisted with the design and testing of a secure AES-128 bit encrypted, tcp-based communication protocol between the meter's CMDA module and a linux-based TCP Server.

Co-Founder and CEO

Aug 2009 – Nov 2011

mSight Mobile, Nashville, TN

- Pioneered the development of Google Android applications as an early adopter, beginning with Android SDK v1.1.
- Contracted with Premo Applications, LLC to design, develop, market and release the App-Packs suite of apps on the Google Android Market (now named Google Play).
- Designed a Java and Android SDK-based secure licensing API enabling packages of applications to be sold as a single transaction using the Google License Verification Library (LVL).
- Developed PhoneFraise, one of the longest-running games on the Google Android Market and one of first applications to integrate with Facebook "Like" and Twitter "Tweet" APIs.

Co-Founder and Project Lead

Mar 2010 – Apr 2011

Pubpicks.net, Nashville, TN

- Worked in a joint venture with mSight Mobile, LLC and The Melrose Pub to successfully design, develop, test and release PubPicks – an interactive, phone-based sports game played on-location at bars and restaurants during live sporting events.
- Designed a cutting-edge, cross-platform, in-browser architecture for the PubPicks app using HTML-5, jQueryMobile, and GPS-based location awareness.
- Managed product development team of two designers and two developers to build, test, demo, and launch the product ahead of schedule in bars and restaurants in Nashville.
- Managed game administration team of six people to advertise, administer and run the game in three restaurants in the Nashville area during the 2010-11 NFL season and the 2011 Men's "March Madness" NCAA Basketball Tournament.

Director of Technology

Oct 2007 – Dec 2009

MOR Technology, Metropolis, IL

- Played an integral role in the development and implementation of a two-year, \$2,000,000 strategic plan to rapidly develop and commercialize process technologies for the renewable energy and commodity processing industries.
- Assisted company engineers and IP firm C.R. Miles with patent prosecution, including filing and granting of four U.S. patents.
- Successfully tested and demonstrated proprietary technologies in the laboratory and at pilot-scale research facilities in Missouri, Iowa, Illinois, Texas, and Canada.
- Part of team awarded \$150,000 matching grant from the Illinois Corn Marketing Board for the installation of a \$300,000 demonstration and testing facility at the Illinois River Energy Ethanol Plant in Rochelle, Illinois; assisted in project planning, test program implementation and data collection during the successful installation, start-up, and operation of the facility.
- Assisted with project management and planning for selection of PLC and automation technology for the Company's flagship corn mill design.
- Developed multivariate programmable plant operational models in Visual Basic and Excel. Tailored models for potential customers based on individual plant design, location, logistics, and commodity pricing scenarios.
- Developed and refined company branding, logos, advertisements, website, and press releases, in collaboration with the Director of Business Development and outside consultants.
- Oversaw the formation of a subsidiary technology company, MOR Supercritical, LLC, by the company's legal team in March 2008; current member of the Board of Directors.
- Managed business development effort for MOR Supercritical's algae-to-biofuels oil extraction technology; drafted and filed grant applications through the State of Pennsylvania and DARPA.
- Drafted, filed for and received three grants for the companies, totaling \$195,000.

- Assisted a legal and executive team in drafting a private placement memorandum offering to sell securities in the company; directly marketed the securities and successfully raised over \$1,000,000 in outside funding for the company.
- Interfaced with legal representatives of multiple stakeholders to oversee the formation of a joint venture technology company, MOR Value Products, LLC in February 2009 with Japanese partner Itochu.

Project Developer

May 2005 – Dec 2007

MOR Energy, Grand Chain, IL

- Co-founded company to develop a proposed \$250,000,000 ethanol plant in Southern Illinois.
- Reviewed and selected primary, next-generation ethanol production technologies; performed technical feasibility and risk assessment, economic modeling and business case analyses for the project; selected technologies for implementation.
- Participated in selecting members of the project development team, including legal, business and finance consultants, local and state economic development agencies, environmental engineers, process engineers, energy suppliers, and owner's engineers; helped to negotiate project contracts in excess of \$800,000.
- Coordinated project development, successfully achieving early milestones, including technology selection, site selection and layout, site engineering, preliminary process design, and air and water permit acquisition.
- Supervised development and drafting of the company business plan, including detailed financial *pro formas*.

Software Engineer

Nov 2003 – Nov 2005

Ulrich Medical Concepts, Paducah, KY

- Member of 4-person engineering team providing active software development and support for the Company's flagship product: Team Chart Concept (TCC), and electronic medical record, billing, and office management software solution medical practices and correctional facilities with over 1,000 medical health professional users in 10 states.
- Designed and developed from conception to release an integration of TCC with the UnicorMed-Easy Code Win32 DLL, allowing medical practices to maximize insurance reimbursements.
- Designed and implemented a Win32 module providing new functionality for digital annotation/markup of medical images and diagrams with customizable database linkage as lead developer on a three person team.
- Developed and successfully released a WinCE application for handheld devices that enabled off-network collection of medical data and synchronization with the primary database and application server.

- Managed and performed development tasks throughout product life-cycles, from needs assessment and definition through internal reviews/releases, quality assurance, documentation, developer and sales employee training, release, and maintenance.
- Researched evolving government and industry compliance requirements and implemented software and controls for various standards and organizations as including HL7, X12, Medicare/Medicaid, HIMSS, HIPAA, and others.

Co-Founder, Chief Technology Officer

Jan 2005 – Dec 2016

The Dynamic Market Lab, Paducah, KY

- Co-founded the company, an on-going and profitable business with over 400 customers in 10 countries.
- Developed and marketed the company’s flagship product, Adaptive Cycle Toolkit (ACT), a top-selling Official Add-On software module for the Metastock Professional Trading Platform.
- Successfully procured a worldwide marketing and license agreement with Equis International, a subsidiary of Thomson Reuters.
- Designed and developed engineering-based financial trading indicators using advanced signal processing mathematics.
- Created from conception through commercial release the complete ACT product - a Win32 C++ application that includes over 60 financial time-series indicators, several trading systems and tools, a website and a 90-page user manual.

EDUCATION

B.S. in Computer Science with *cum laude* honors, Vanderbilt University

May 2004

B.S. in Mathematics with *cum laude* honors, Vanderbilt University

May 2004

GOVERNMENT AUDITS and IT COMPLIANCE CONSULTING

Electronic Health Record Vendor

Feb 2019 – Jan 2020

(CLIENT CONFIDENTIAL)

Performing consultation regarding compliance and regulatory matters for Certified Health IT software.

Electronic Health Record Vendor

March 2019 – Present

(CLIENT CONFIDENTIAL)

Performing gap analysis and recommendations for improving compliance with CEHRT regulations for Certified Health IT software.

REMS – Data, Quality, Process and Systems Review

April 2019 – Present

(CLIENT CONFIDENTIAL)

Performing independent, internal data, quality, process and systems review for a major FDA-regulated REMS (Risk Evaluation and Mitigation Strategies) program and for a popular generic medication with serious side effects. Includes 21 CFR Part 11 compliance review, review of software development, architecture, requirements, documentation, testing and validation; review of annual report data and assisting with responses to FDA inquiries.

Electronic Health Record Vendor

Nov 2017 – Present

(CLIENT CONFIDENTIAL)

Developing guidance to meet CEHRT regulations with a focus on software governance and quality management systems; drafting policies and procedures that combine agile processes with regulatory governance requirements. Reviewing source code and issue tracking records to identify potential regulatory issues.

Office of National Coordinator for Health IT

ONC Health IT Safety Evaluation Technical Analysis

Aug 2017 – Present

Currently engaged as the leading software engineer on a small team led by NORC at the University of Chicago and selected under a federal contract and open solicitation (**Solicitation # 17-233-SOL-00329**) issued by the ONC. The project is expected to include technical reviews of known or expected patient safety issues in ONC-certified EHR systems, including software process and source code review, including review of past issues, recommendations for risk and quality management systems, design controls, improvements to software development and testing processes, code review and manual and automated code quality analysis.

eClinicalWorks, LLC and the Office of the Inspector General of HHS

Software Quality Oversight Organization

Jul 2017 – Present

Leading a team of seven serving as the Software Quality and Oversight Organization (SQOO) under the Corporate Integrity Agreement between eClinicalWorks LLC and the Office of the Inspector General of the United States Department of Health and Human Services dated May 30, 2017. Serving as an

independent audit and oversight organization covering a technical review of EHR software and development processes as it relates to patient safety. The project includes software process and source code review, including review of past issues, recommendations for risk and quality management systems, design controls, improvements to software development and testing processes, code review and manual and automated code quality analysis.

Office of National Coordinator for Health IT

Nov 2016 – June 2017

Led a team of four serving as an Independent Consultative Expert (ICE), and issued a formal ICE report covering a technical review and audit of a major EHR software product as it relates to patient safety. The project included software process and source code review, review of past issues, and development of recommendations for risk and quality management systems, design controls, improvements to software development and testing processes, code review and manual and automated code quality analysis.

Consumer Financial Protections Bureau (CFPB)

Mar 2016 – Dec 2016

Leading a team of three from Quandary Peak Research in providing technical review and audit for the CFPB in an ongoing investigation of a large mortgage servicing company. The review covers software process and code review, including a review of internal software development processes, documentation and communication practices, data storage and access practices, and source code review. The project includes assessing the integrity and reliability of key data and identifying potential data integrity and validation remedies.

LITIGATION and IP CONSULTING

* represented party shown in italics

Lenovo Group Limited

Mar 2020 – Present

Jurisdiction: N/A
Counsel: Sheppard Mullin Richter and Hampton LLP
Nature of Matter: patent analysis
Description of Services: providing analysis regarding patent invalidity of Nokia-owned patents related to Android smartphone software

***Private Parties v* CONFIDENTIAL**

July 2018 – Present

Jurisdiction: U.S. District Court
Counsel: Schlichter Bogard & Denton LLP
Nature of Suit: False Claims Act

Description of Services: providing expert analysis regarding potential false claims related to Meaningful Use and CEHRT regulations in the Health IT industry

North Brevard County Hospital District v McKesson Technologies, Inc.

Nov 2016 – Nov 2017

Jurisdiction: U.S. District Court, Middle District of Florida
Counsel: GrayRobinson, P.A.
Nature of Suit: contract dispute

Description of Services: provided expert report and analysis of the implementation of McKesson's Horizon and Paragon systems at a community hospital, including a review of the EHR software and services and their compliance with industry standards.

Automation Middleware Solutions vs. Emerson Process Management LLP et. al.

May 2016 – April 2017

Jurisdiction: U.S. District Court, Eastern District of Texas
Counsel: Bragalone Conroy PC
Nature of Suit: patent infringement

Description of Services: Performed code review and infringement analysis for middleware components in industrial motion control software.

CWI, Inc. v SmartDog Services LLC

Sept 2016 – June 2017

Jurisdiction: U.S. District Court, Western District of Kentucky
Counsel: Broderick and Davenport LLP
Nature of Suit: contract dispute

Description of Services: reviewed and provided expert report covering Oracle eBusiness Suite and WMS installation for a large outdoor products retail and distribution company.

AliphCom, Inc. et. al. v Fitbit, Inc.

Nov 2015 – June 2016

Jurisdiction: International Trade Commission, U.S. District Court, Northern Dist. of California
Counsel: Gibson Dunn and Crutcher LLP
Nature of Suit: patent infringement

Description of Services: providing software analysis regarding infringement and domestic industry use for wearable health and activity trackers.

Walmart-Stores, Inc. v Cuker Interactive, LLC

May 2015 – Apr 2017

Jurisdiction: U.S. District Court, Western District of Arkansas
Counsel: Kutak Rock LLP
Nature of Suit: contract dispute

Description of Services: provided analysis and expert report regarding development of responsive ecommerce website.

Ericsson Inc. et al. v TCL Communication Technology Holdings, LTD, et al.

Apr 2015 – Dec 2016

Jurisdiction: U.S. District Court, Eastern District of Texas and Inter Partes Review
Counsel: Sheppard Mullin Richter and Hampton LLP, Morgan Lewis and Bockius, LLP
Nature of Suit: patent infringement
Description of Services: providing analysis regarding patent invalidity for Android smartphone and Java mobile software, issued declaration in IPR proceeding.

Justin Hull and Amy Sweigard v Marriott International, Inc

Mar 2015 – Feb 2016

Jurisdiction: U.S. District Court, Southern District of Maryland
Counsel: Conn Maciel Carey PLLC
Nature of Suit: Americans with Disabilities Act (ADA) compliance
Description of Services: providing analysis regarding suitability of software solutions for making an Oracle Siebel Hospitality software compatible with the JAWS screen reader. Authored expert report and provided deposition testimony.

Mary Rutan Hospital v Nextgen Healthcare Information Systems Inc Feb 2015 – Mar 2015

Jurisdiction: U.S. District Court, Southern District of Ohio
Counsel: Reminger Co., L.P.A.
Nature of Suit: EMR contract dispute
Description of Services: provided analysis of NextGen EMR software and software installation for arbitration negotiations

Computer Programs and Systems, Inc v Mad River Community Hospital and American Hospital Management Corporation

Jan 2015 – Mar 2015

Jurisdiction: Circuit Court, Mobile County Alabama
Counsel: Janssen Malloy LLP
Nature of Suit: EMR contract dispute
Description of Services: provided analysis of CPSI EMR software and software installation for arbitration negotiations

Core Wireless Licensing S.a.r.l. v. LG Electronics, Inc. & LG Electronics MobileComm USA, Inc.

Feb 2015 – Sept 2016

Jurisdiction: U.S. District Court for the Eastern District of Texas
Counsel: Bunsow De Mory Smith & Allison LLP
Nature of Suit: software patent infringement
Description of Services: review of source code for LG Android smartphone devices

Core Wireless Licensing S.a.r.l. v. Apple Computer, Inc.

Feb 2015 – Sept 2016

Jurisdiction: U.S. District Court for the Eastern District of Texas

Counsel: Bunsow De Mory Smith & Allison LLP
Nature of Suit: software patent infringement
Description of Services: review of source code for Apple smartphone and tablet devices

Packet Intelligence, LLC v Cisco Systems, Inc.

Oct 2014 – Mar 2015

Jurisdiction: U.S. District Court for the Eastern District of Texas
Counsel: Heim, Payne and Chorush LLP
Nature of Suit: software patent infringement
Description of Services: Review of source code for Cisco routers

Denise C. Tullock and Sandra M. Fry v Success Health Corp.

Oct 2014 – Dec 2014

Jurisdiction: Circuit Court, City of St. Louis, Missouri
Counsel: Thurman Howald Weber Senkel & Norrik LLC
Nature of Suit: Medical Malpractice
Description of Services: Forensic Retrieval and Investigation of Electronic Medical Records

Bridgetree, Inc. v Red F Marketing LLC et. al.

June 2014 – Mar 2015

Jurisdiction: U.S. District Court - Western District of North Carolina Charlotte Division
Counsel: Harwell Howard Hyne Gabbert & Manner
Nature of Suit: Intellectual Property – Trade Secret
Description of Services: authored expert report on the similarities of web-based financial services software

YPPI v SuperMedia LLC

June 2014 – Sep 2014

Jurisdiction: U.S. Bankruptcy Court - District of Delaware
Counsel: Kirkland and Ellis
Nature of Suit: Intellectual Property – Copyright Infringement
Description of Services: Authored expert report and testified at trial on the transfer of digital images via the world wide web

Guitar Apprentice, Inc. v. Ubisoft, Inc.

Oct 2013 – Dec 2015

Jurisdiction: U.S. District Court - Western District of Tennessee Western Division
Counsel: Waddey Patterson
Nature of Suit: Intellectual Property – Patent
Description of Services: Performing code review and infringement analysis for interactive learning game

Special Learning, Inc. v. Step-By-Step Academy, Inc.

Oct 2013 – Dec 2014

Jurisdiction: U.S. District Court - Southern District of Ohio Eastern Division

Counsel: Cooke Demers and Gleason LLP
Nature of Suit: Contract Dispute
Description of Services: Expert analysis of web-based medical software; analysis of compliance with CARF and CCHIT standards

***Wasielewicz v. Southwestern Illinois Health Facilities, Inc. et. al.* Oct 2013 – Jan 2014**

Jurisdiction: Illinois State Court, Madison County
Counsel: Thurman Law
Nature of Suit: Defect Analysis
Description of Services: prepared for expert testimony re: medical records software defects

***Mediware Information Systems, Inc. v. Hematerra Technologies, LLC* Dec 2013 – Mar 2018**

Jurisdiction: U.S. District Court, Middle District of Florida Jacksonville Division
Counsel: Barack Ferrazzano Kirschbaum & Nagelberg LLP
Nature of Suit: Trade Secret
Description of Services: Performing analysis of trade secrets and preparing for expert witness testimony

***Intellectual Ventures LLC v. AT&T Mobility LLC, et al.; Intellectual Ventures LLC v. T-Mobile USA, Inc., et al.; Intellectual Ventures LLC v. Nextel Operations, Inc., et al.; and Intellectual Ventures LLC v. United States Cellular Corporation* Oct 2013 – Aug 2019**

Jurisdiction: U.S. District Court for the District of Delaware
Counsel: Dechert LLP
Nature of Suit: Intellectual Property – Patent
Description of Services: Performed code review and infringement analysis for cellular telephone services

***ROY-G-BIV Corporation v. Honeywell International, Inc., et al.; ROY-G-BIV Corporation v. Siemens Corporation, et al.; and ROY-G-BIV Corporation v. ABB, Ltd., et al.* Oct 2013 – September 2014**

Jurisdiction: U.S. District Court for the Eastern District of Texas
Counsel: Boies, Schiller & Flexner LLP
Nature of Suit: Intellectual Property – Patent
Description of Services: Performed code review and infringement analysis for industrial motion control systems

***Motion Games, LLC v. Nintendo Co., Ltd., Nintendo of America Inc., Retro Studios, Inc., Rent-a-Center, Inc., and Gamestop Corp.* Sept 2013 – Apr 2015**

Jurisdiction: U.S. District Court for the Eastern District of Texas
Counsel: Boies, Schiller & Flexner LLP
Nature of Suit: Intellectual Property – Patent

Description of Services: Performing code review and infringement analysis for camera-based sensing and gaming systems.

Nokia Corporation and Nokia Inc. v. HTC Corporation and HTC America, Inc.

Aug 2013 – April 2014

Jurisdiction: United States International Trade Commission

Counsel: Desmarais LLP

Nature of Suit: Intellectual Property – Patent

Description of Services: Performed code review and infringement analysis for three mobile smartphone related patents.

Nokia Corp. and Intellisync Corp. v. HTC, HTC America, Inc., and Exedea, Inc.

Feb 2013 – May 2013

Jurisdiction: United States International Trade Commission

Counsel: Desmarais LLP

Nature of Suit: Intellectual Property – Patent

Description of Services: Delivered code review and infringement analysis for three patents across a number of smartphone models running the Android operating system.

Wisconsin Technology Venture, LLC v. Fatwallet, Inc.

Mar 2013 – Dec 2013

Jurisdiction: U.S. District Court for the Western District of Wisconsin

Counsel: Newman Du Wors LLP

Nature of Suit: Intellectual Property - Patent

Description of Services: Provided source code review and analysis and authored expert report.

Anthony Dike, M.D. v. Kindred Healthcare Operating, Inc.

Mar 2013 – Mar 2014

Jurisdiction: Superior Court of the State of California, County of Los Angeles – East District

Counsel: Giovanniello & Michels, LLP

Nature of Suit: Loss of Property

Description of Services: valuation of medical software and best practices analysis.

N5 Technologies, LLC v. Capital One, N.A., Capital One Bank (USA), and Capital One Services, LLC

June 2013 – Oct 2013

Jurisdiction: U.S. District Court for the Eastern District of Virginia

Counsel: Panovia Group, LLP

Nature of Suit: Intellectual Property - Patent

Description of Services: Provided source code review and analysis of mobile banking SMS application.

Yazmin Reyazuddin v. Montgomery County, Maryland

Aug 2012 – Mar 2014

Jurisdiction: U.S. District Court for the District of Maryland (Southern Division)

Counsel: Office of the Montgomery County Attorney

Nature of Suit: Reasonable Accommodations Dispute Re: Section 504 of the Rehabilitation Act

Description of Services: Authored expert report and provided deposition testimony including analysis of project cost and impacts for a Siebel Public Sector call center installation.

MobileMedia Ideas, LLC v. HTC Corporation and HTC America, Inc. July 2012 – Mar 2013

Jurisdiction: U.S. District Court for the Eastern District of Texas
Counsel: Desmarais LLP
Nature of Suit: Intellectual Property – Patent
Description of Services: Delivered code review and infringement analysis providing review for nine patents across 29 smartphone models running the Android, Windows Mobile and Windows Phone 7 operating systems.

PROFESSIONAL AND TECHNICAL EXPERTISE

Software Languages and Platforms:

Mobile and Social: Java/JavaEE, Google Android SDK (v1.1 through 4.1), Google Maps API, Google Licensing API, Google Cloud Messaging API, Google Wallet, Apple iOS, iPhone SDK, Objective C, Facebook API, Twitter API, Blackberry SDK, Windows Phone, Sencha, Appcelerator Titanium

Web: Google APIs, RESTful APIs, Java EE, Swing, Spring Framework, HTML5, CSS, javascript, jQuery/jQueryMobile, django, Python, Chef, Fabric, PostgreSQL, json, SOAP, XML, PHPMyAdmin, Rackspace Cloud, Amazon EC2, Apache, Ruby, Unicorn, nginx, ZeroMQ, RabbitMQ, SendGrid, Twilio, Perl, Linux, SMS, HTTP, TCP/IP, CDMA, GSM, Zigbee, Bluetooth

Microsoft Platforms: .NET, ASP.NET, C#, VB.NET, Windows Phone SDK, IIS, COM/DCOM, Visual C++, Win32 applications and DLLs, WinCE applications, MFC 6.0, Visual Basic 6.0

Database and ERP: MySQL, PostgreSQL, Oracle, Siebel, OFBiz, OpenERP, JDBC, ADO.NET, OLE, Microsoft SQL, SugarCRM

Project Development and Management: Eclipse, Visual Studio 6, 8, 2005-2010, Visual Studio .NET, Siebel Tools, Visual Paradigm, UML, Github, JIRA, COCOMO, Microsoft Project, Visual SourceSafe

Medical/Compliance: HL7, CCD, X12M, DICOM, 510(k), PCT Codes, IDC-9, HIPAA, Meaningful Use, ISO 94791, ISO 62332, ISO/IEEE 11073, 510(k), CCDs

Embedded/Circuits/Robotics: Texas Instruments/PIC/Arduino microcontroller programming, Labview, GEN2, analog circuit design, spectrum analysis

Other: MATLAB, eSignal, TradeStation, AutoCAD, Adobe Photoshop, Google Apps

Skills and Experience:

Software Development: desktop applications, mobile and web applications, object-oriented design, web services, design patterns, graphics and animation, image and media processing, embedded and cellular device application and frameworks, machine-to-machine platforms, ERP applications, agile development, scalable design, process controls, documentation and technical writing, database design and optimization

Hardware and Firmware Development: microcontroller programming, ladder programming, PID loop design, circuit design, AC/DC motor control, robotics, motion control theory, spectrum analysis

Software Project Management: project design, life-cycle and change management, design audits, cost estimation, process controls and professional standards compliance, risk management

Technology Management and IP: risk management, IP portfolio management and strategy, staffing and team management, strategic planning, market analysis, technology licensing agreements, software terms of service and privacy policies, confidentiality agreements, service agreements

Business Administration: business organization and legal structuring, LLC formation, private placement memorandums, series financing, stock option agreements, equity/debt structures

Analytics and Finance: statistics and numerical analysis, signal processing algorithms and systems, financial trading indicators and systems, business accounting, finance math, business valuation methodologies

Medical: FDA 510(k) pre-market notification for medical devices filings; QMS compliance, HIPPA compliance, EMR and EHR systems, medical devices

Expert Legal Services in Computer Science: expert reports, deposition, testimony, code review, patent claims analysis, patent infringement litigation support, software cost and impact analysis, defect analysis, forensics, software licensing and contracts

PROFESSIONAL ASSOCIATIONS

Member, IEEE Computer Society