Jonathan T. Losk

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Accomplished patent attorney, experienced technology transaction & business development negotiator, impactful product development executive. Chief patent counsel, associate general counsel, director of strategic innovation, and Vice President of product development for a Fortune 500, medical device corporation. Proven track record of delivering high-quality, customer-oriented, collaborative service in legal, business development, and engineering organizations.

PROFESSIONAL EXPERIENCE

Knobbe, Martens, Olson & Bear LLP — **2014 – present**

Partner — **2014 - present**

Patent attorney in one of America's preeminent Intellectual Property law firms. Counseling practice directed at creating value for clients by securing rights to technological innovations. Practice focuses in the medical device, electronics, communications and computing industries, partnering with clients to develop competitive strategies, perform infringement analyses, support financing actions & strategic transactions, and implement patent portfolio strategies.

St Jude Medical, Inc., Sylmar, CA ($5.5 Billion, Fortune 500 Medical Device Company, STJ) — **1999 – 2002; 2003 – 2014**

Vice President Systems and Clinical Engineering — **2012 - 2014**
Vice President Hardware Development — **2007 - 2012**
Vice President Electrical Engineering — **2006 - 2007**

Leader of global product development departments in the Implantable Electronic Stimulation business unit developing pacemakers, defibrillators, neuro-stimulators, loop recorders, pressure sensors, programmers, bedside monitors, web-based distributed patient care networks, & patient activators. Led teams ranging from 6 to 15 direct reports, between 55 and 210 engineering professionals, located in multiple US sites and in Europe. Managed annual budgets ranging from $15MM to $40MM. Delivered 30+ releases in a timely product cadence of innovative solutions, customer-focused platforms, and external systems.

Technologies, products, processes, and systems developed include:

- High-density, aluminum electrolytic capacitors
- Silver vanadium oxide (SVO) primary cell battery development
- Systems, filters and components directed at limiting implanted medical device exposure to interference from MRI systems
- Sensors: pressure, motion/activity (1D & 3D), temperature, respiration, impedance
- Signal processing and algorithm development
- Custom, ultra-low-power ASICs: digital controller, analog front-end signal processing, mixed-signal high voltage charging and delivery (for defibrillation therapy), internal memory
- Electronics hybrid component: substrate material (ceramic & organic), design & layout; manufacturing process development

- Mechanical packaging of complex, implantable electronic sensors and stimulators
- Automated test systems of electronics components and sub-assemblies at the wafer, board, and device levels
- Wireless technology: integration of MICS & Bluetooth technology into implantable devices; antenna modeling and development
- Internet-based collection and processing of patient data; aggregation, sanitization (to comply with HIPAA and other privacy regulations); mining and analytics of individual and aggregated, population-based clinical data
- External programmers, bedside monitors, hand-held activators; transferring applications to standard smart-phone and tablet platforms
- Leadless, intra-cardiac pacemaker system
- Systems and methods to monitor and treat heart failure conditions
- Methods for manufacturing implantable medical devices
- Ergonomic mechanical packaging for implantable electronic stimulation pulse generators
- Electronics packaging directed at device miniaturization, component integration, process improvements, and cost reduction

Associate General Counsel, Business Development **2003 - 2006**
Director, Strategic Innovation – Concurrent with Business Development Role **2004 - 2006**

- Advised Division President, executive staff, and corporate business development team on mergers, acquisitions, joint development ventures, IP licensing agreements, and technology investments, all directed at securing competitive advantages to support strategic business objectives
- Structured joint effort with IC manufacturer to develop a custom, ultra-low power, embedded memory that quadrupled internal memory capacity, lowered power consumption, and reduced memory size footprint for implantable stimulation platforms
- Secured exclusive rights to co-polymer material that delivered superior durability for implantable defibrillator lead insulation
- Negotiated exclusive rights in cardiac rhythm management field-of-use for method of real-time detection of heart attack
- Acquired technology and patent rights to implantable system that monitors and manages congestive heart failure
- Led disruptive innovation team to develop ultra-low-cost implantable defibrillator for expansion into emerging markets
- Promoted to Vice President, Electrical Engineering

Senior Patent Counsel, Chief Patent Counsel **1999 - 2002**

- Successfully defended patent infringement suit that threatened injunction against $1 billion defibrillator product line
- Managed company's IP department of 13 attorneys, patent agents, paralegals, and administrative staff
- Implemented patent procurement and acquisition strategy directed at securing rights to technologies that differentiate offerings in existing and emerging markets
- Managed company's trademark portfolio, including clearance, procurement, and enforcement of critical brand identities
- Conducted freedom-to-practice analyses to proactively advise internal R&D clients and business development teams
- Improved patent acquisition, portfolio development and maintenance processes to reduce departmental expenses by 30% and to reduce time between disclosure submission and application filing by 40%
- Negotiated agreements with customers, suppliers, developers, universities, licensing agents, IP holding companies, and patent assertion entities
- Designed and implemented IP competitive strategy
- Managed competitive surveillance, analysis and patent enforcement efforts
- Instituted directed innovation methodology to generate patent assets targeted at strategic business interests

Quinn Emanuel Urquhart Oliver & Hedges, LLP, Los Angeles, CA (Equity Partner) **2002 - 2003**
Lyon & Lyon, LLP, Los Angeles, CA (Associate Attorney) **1994 - 1999**

- Prepared and prosecuted patent applications in various medical device, electronic, and mechanical arts, including: implantable electronic stimulation devices and related external systems, mapping and ablation catheters, semiconductor design and fabrication, software systems (embedded, programmer-based, & internet/cloud-based), signal processing, wireless communications, solar power generation systems, high-frequency plasma generators for semiconductor processing applications, business methods, manufacturing processes, disk drive servo control systems, arcade games, and turbo-expanders
- Conducted extensive patent infringement, validity and enforceability analyses
- Counseled clients concerning global IP holdings, enforcement strategies, and SEC filings
- Litigated patent, trademark, unfair competition, antitrust, contract and patent malpractice matters in various courts and tribunals
- Enforced pioneering hardware logic emulation patents in multiple forums which resulted in judgments and settlements favorable to client; Appeared before the Federal Circuit Court of Appeals which affirmed judgments in favor of client
- Produced the first-ever International Trade Commission prohibition against importing infringing software via electronic transmission
- Enforced client's German patent in District Court of Dusseldorf; secured injunction against infringing sales and damages award
- Enforced client's French patent in District Court of Paris; executed patent infringement seizure of defendant's facility outside of Paris

Unisys Corporation, Culver City, CA **1989 - 1994**

Systems Engineer, Program Manager

- Modeled performance characteristics of Air Force Satellite Control Network
- Developed state-of-the-art, PC-based computing and communications modeling tool
- Developed custom software front-end application for same
- **Received Achievement Awards for Technical & Professional Excellence: 6/90, 8/92, 12/92 & 4/93**

S. Systems Corporation, Inglewood, CA **1985 - 1989**

Systems Requirements Analyst, Program Manager

- Managed team of 18 engineers and technical support staff
- Provided engineering and program support for US Air Force Space Systems programs
- Implemented secured military communications network for use on special programs

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EDUCATION

Loyola Law School - Los Angeles, CA
J.D., Law; Admitted to State Bar of California, Numerous Federal District Courts, and the Ninth and Federal Circuit Courts of Appeals
Registered Patent Attorney with the U.S. Patent & Trademark Office (Reg. Number 39,755)

University of Southern California - Los Angeles, CA
M.S., Electrical Engineering – Systems (emphasis on architecting complex systems)

California State University, Los Angeles – Los Angeles, CA
Completed 24 courses in Electrical Engineering curriculum

University of California at Los Angeles - Los Angeles, CA
B.A., English Literature

COURSES/PRESENTATIONS

Instructor: "Patent Strategy: Anticipating Your Client's Needs,"
MCLE course presented to the legal staff at Quinn Emanuel Urquhart Oliver & Hedges, LLP, Los Angeles, CA
July 2002

Instructor: "Patent Strategy for In-House Counsel,"
MCLE Course presented to the Law Department of Beckman Coulter, Brea, CA
October 2002

Speaker: "Technology Trends in Healthcare: Medical Devices & Personal Healthcare Ecologies"
Panelist for seminar conducted by the Institute for the Future, Denver, CO
March 2005

Speaker: "Practice Points for Executing Technology Deals: The In-House Counsel's Perspective"
Seminar sponsored by O'Melveny & Myers, LLP, San Diego, CA
October 2005

Speaker: "IP Issues That Keep In-House Counsel Awake At Night,"
American Bar Association, Chicago, IL
September 2006

Instructor: "Inspiration, Innovation & Inventions"
Two-week immersion course directed at re-thinking the student desk by applying the process of innovation developed and practiced by the Palo Alto, CA-based design firm, IDEO.
Oakwood School, North Hollywood, CA
January 2009

Panelist: "What Non-IP In-House Counsel Need to Know About IP Law - IP Portfolio Assessment and Management"
ACC-SoCal In-House Counsel Conference, Los Angeles, CA
January 2015

Speaker: "Intellectual Property Protection in the Life Sciences"
Calit2 International Symposium on Technology in Medical Devices, Irvine, CA
February 2015

PATENTS/PUBLICATIONS

US Patent Number 8,192,360: Implantable Body Fluid Analyzer, Issued June 5, 2012

Systems Architecting: Creating & Building Complex Systems, by Eberhardt Rechtin, (Prentice Hall, 1991)*;* graduate research served as basis for "Chapter 14: Profile of a Systems Architect."

HOBBIES: Hiking, Cycling, Cooking, Family Travel, Rock & Blues Guitar