

WILLIAM J. RISSMANN

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SENIOR EXECUTIVE

Medical Device Product Development

A results oriented, hands-on team player who enjoys leading teams of development engineers in bringing new medical products to market in a fast paced, rapid decision making, out-of-the-box thinking environment.

- Senior Executive with extensive leadership experience in developing active implantable medical products
- Involved with/directed the development through FDA approval of over 20 medical devices
- Board Member of Truminim, Inc.; founder of one company; Senior Officer, two publicly traded companies
- Increased the valuation of a start up company from \$3 M to \$33M in twelve months (Cameron Health)
- Managed large engineering departments; interviewed and hired hundreds of engineers
- Holds 59 US issued patents with more pending
- BSEE, MSEE and MBA; Life Senior Member of the IEEE

RECENT EMPLOYMENT BACKGROUND

MEDICAL INNOVATIONS PRODUCT DEVELOPMENT, LLC – Deephaven, MN 2006-Present

Consulting company that provides concept approach, business plan development & circuit design for early stage medical device companies as well as Expert Forensic Consulting for medical device issues

President

Recent projects include:

- 100 page Business Plan & Elevator Pitch (Truminim-spinal stenosis tool)
- 100 page Business Plan, Elevator Pitch & Investor Presentation (Uroplasty-implantable tibial nerve stimulator)
- Designed, built & tested a nerve stimulator; evaluated in animals (Neuro Ablation)
- 175 page Business Plan, Executive Summary, Elevator Pitch & Investor presentation (Chitogen-wound care)
- Designed, built and tested an ECG synchronization electronics system to synchronize a pneumatic cardiac compression device for use in Congestive Heart Failure (CHF) patients for a startup company (NeoCardial)

Recent legal consulting work:

- Expert witness for Meyer Bigel, et al, Raleigh, NC on a patent infringement case; reviewed patents & deposed
- Expert witness for Nutter, et all, Boston, MA on a patent infringement case; reviewed numerous documents and patents; wrote several reports, deposed twice; testified at trial in Delaware, January 2016
- Expert witness for the IRS on two price transfer issue cases; reviewed numerous documents, visited a number of manufacturing plants, wrote several 100 page reports; testified at a trial in Federal Court in March, 2015
- Forensic Consultant for Zimmerman & Reed for a failed cardiac lead; performed analysis & found the issue

AMERICAN MEDICAL SYSTEMS – Minnetonka, MN 2009-2011

Manufacturer of implantable products that treat men's & women's pelvic health issues

Director, AIMD Product Development

Responsible for development of an AIMD system to treat urinary incontinence in women.

- Wrote 100 page NewCo business plan, 10 page executive summary, 1 page elevator pitch for potential spinoff
- Revised overall product development strategic roadmap; secured upper management approval for new direction

HEARTWARE, INC. – Miramar, FL 2005 - 2006

Start up company developing a miniaturized left ventricular assist device (LVAD) & system support devices.

VP, Product Development & Manufacturing

Responsible for completing product development, transfer into manufacturing, production and many other day to day operational issues.

- Created the overall project schedule of 1,400 tasks and managed the company's activities to transition from a prototype device to human grade; accomplished the first human implant on schedule.
- Secured approval from the MHRA, the British FDA equivalent, to begin HeartWare's Clinical Study; work consisted of identification & retention of a European consultant, submission preparation and serving as the company contact for numerous questions from the MHRA.

BIOELECTRIC MEDICAL SOLUTIONS, INC. - San Diego, CA 2004 - 2005

Startup company developing a portfolio of miniaturized, microprocessor based, microcurrent devices to speed healing and reduce inflammation in body areas subjected to stresses beyond normal day to day capacity.

Chief Operating Officer

Responsible for overall operation of the company as it sought funding and prepared to begin development efforts.

RECENT EMPLOYMENT BACKGROUND (Continued)

CAMERON HEALTH, INC. - San Clemente, CA 2000 - 2004
Start up company developing a market disruptive generation of an implantable defibrillator (ICD) system.

Vice President, Research & Development (2002 - 2004)

Responsible for all research and development activities for a state-of-the art implantable defibrillator system.

- Directed development of a chronic implant surrogate for humans to periodically gather ECG's.
- Directed animal, cadaver and live human studies to explore shocking energies, electrode concepts and surgical tools.
- Directed development/implementation of the company's Quality System; received ISO certification (KEMA).
- Directed product development for the R & D group; developed and managed the schedule of 2,100 tasks.
- Sourced, recruited and hired an additional 25 engineers and technicians.

President (Interim) & Founder (2000 - 2002)

Responsible for all aspects of starting the company including complete technical and administrative activities.

- Directed the design and clinical implementation of a human research arrhythmia induction and high energy rescue device; design, bench/animal testing and first human use completed in seven months.
- Designed the company's technical and manufacturing organization and determined staffing needs.
- Generated budget and schedule to develop the ICD and its related system.
- Directed a salary survey to ensure equitable salary compensation for new employees.
- Directed and participated in sourcing, recruiting and hiring of 15 engineers and technicians.
- Secured large scale employee benefits for a small start up organization.
- Secured infrastructure needs such as facilities, a computer network, phone system, furniture, etc.

CONDENSED PRIOR EMPLOYMENT BACKGROUND

DATA SCIENCES, INC. - St. Paul, MN 1999 - 2000
Developer and manufacturer of implantable blood pressure, ECG & EEG sensors for use in laboratory animals; hired to facilitate the transition from animals to humans. Sales of \$10 Million annually, 100 employees.

Vice President, Product Development

Responsible for identifying human applications for their animal sensor technology and quality system upgrade to human use medical standards

ELA*ANGEION, LLC - Minneapolis, MN 1998 - 1999

A privately held distribution company formed between Angeion Corporation & ELA Medical to market, sell & service implantable defibrillators and pacemakers in North America.

Board Member, Board of Directors

ANGEION CORPORATION - Minneapolis, MN 1994 - 1999

Developer and manufacturer of implantable defibrillator systems and ablation catheters. Sales of \$5 Million annually, 180 employees

Vice President, Research & Development

Responsible for the development of three generations of an advanced ICD System including implantable device, lead and programmer; managed advanced technology, system engineering, ASIC design, electrical, software and mechanical design engineering, design verification engineering, manufacturing test engineering, continuation and reliability engineering of implantable defibrillators, programmers, external test instruments and implantable leads.

GUIDANT CORPORATION - St. Paul, MN 1985 - 1994

Developer and manufacturer of implantable pacemaker and defibrillator systems. Sales of \$500 Million, 1,800 employees

Director R&D, Advanced Tachy Development (1990 - 1994)

Responsible for overall corporate product development of the company's first dual chamber implantable defibrillator system in a dedicated team environment

Director R&D, Leads Development (1989 - 1990)

Responsible for development of the industry's first successful transvenous implantable defibrillation lead and for upgrading the Leads Engineering Development Department

Director, Manufacturing Quality & Test Engineering (1987 - 1989)

Responsible for manufacturing quality control, test equipment development and test equipment support.

CONDENSED PRIOR EMPLOYMENT BACKGROUND, Continued

GUIDANT CORPOPRTATION, Continued

Manager, Product Planning & Administration (1985 – 1987)

Responsible for corporate implantable defibrillator product development in a matrix management structure.

ST. JUDE MEDICAL, INC.- St. Paul, MN

*Developer and manufacturer of mechanical prosthetic heart valves. Sales of \$200 Million, 100 employees.***Manager, New Product Engineering** 1983 - 1985

Responsible for engineering project management of microprocessor based medical devices and continuation engineering of existing valve products and surgical aids.

MEDTRONIC, INC. - Minneapolis, MN

1980 - 1983

*Developer and manufacturer of implantable pacemakers and implantable defibrillators. Sales of \$500 Million, 5,000 employees.***Engineering Program Manager** (1982 – 1983)**Systems Manager** (1980 – 1982)

SRL MEDICAL, INC. – Dayton, OH

1976 – 1980

*Developer and manufacturer of pulmonary function test systems. Sales of \$10 Million, 100 employees***International Field Service Coordinator****Lead Research & Development Engineer****EDUCATION****MBA**, General Management, University of Minnesota Carlson School of Management - Minneapolis, MN**MS**, Electrical Engineering/Biomedical Engineering, University of Illinois - Urbana, IL**BS**, Electrical Engineering, University of Illinois - Urbana, IL**COMMUNITY VOLUNTEER ACTIVITIES**

MINNETONKA LAKE MUSEUM

Spring, 2016-Present

*An active museum featuring a restored 90-passenger 1906 steamboat providing excursions on Lake Minnetonka***Event Coordinator & Steamboat Engineer-In-Training**

UNIVERSITY OF MINNESOTA

Member, Office of Technology Commercialization CEO in Residence Program Spring, 2012-Present

Responsible for reviewing and advising technology development with the potential to form start up medical device companies in the Twin Cities; also, responsible for reviewing and advising Fellow's research direction as it applies to commercialization of their concepts; currently developing a business plan on one such concept

Senior Design Project Course Instructor

2014/15 School Year

Responsible as course instructor for a senior biomedical engineering design course including lectures and small group coordination (see below) for 78 students; current professor is on sabbatical for the year

Senior Design Project Advisor

09/10, 10/11, 11/12, 12/13, 13/14, 15/16& 16/17 School Years

Responsible for mentoring and advising biomedical engineering seniors as they work on their senior design project; activities include weekly meetings monitoring their progress and providing real world product development guidance; give lectures on Business Plan Development & engineering positions for medical device companies

BOY SCOUTS OF AMERICA

1998 - 2011

Various leadership responsibilities including Den Leader, Cubmaster for 100 Cub Scouts, Boy Scout Troop Treasurer and Committee Chair; as both Cub Master & Troop Chair, rebuilt both organizations through organizational design and volunteer staffing

MINNEAPOLIS AQUATENNIAL

1981 - 2011

*A 10 day non-profit city wide festival celebrating summer, lakes, and family fun; the festival consisted of 100 events and was run by a small paid staff and hundreds of volunteers.*Various volunteer leadership responsibilities including Vice Commodore, Sports & Lakes Division, General Festival Chair for the 50th Anniversary, President for two years in 1996 & 1997 and in 2010 & 2011, responsible for \$1 M P & L