

# Steven R. Frank

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## **VICE PRESIDENT OF RESEARCH & DEVELOPMENT**

Innovative, entrepreneurial executive leader with vast and proven experience getting industry leading results in the areas of: Cutting edge engineering, public relations, design and implementation, effective program/project management and new program/process implementation.

### **KEY COMPETENCIES**

- Quick and effective company goal achievement for both very large corporations/small start-ups alike
- Expert at identifying and overcoming business critical challenges; utilizing creative problem solving skills to keep company wide programs moving quickly and efficiently leading to ultimate success
- Outstanding communication and presentation skills to deal effectively with all levels of company programs, technology and leadership achieving company goals on time and within budget

*...Manifesting Visions of Tomorrow with Technologies of Today*

### **Research and Development expertise:**

- Innovative Engineering
- New Product Development
- Clinical Studies/Analysis
- Scientific Investigation
- Microbiology
- Intellectual Property
- Medical Equipment
- Consumer Products
- Scientific Equipment

### **Business and Technical expertise:**

- Effective Communications
- Customer Relations
- Budgeting/Forecasting
- Strategic Planning
- Electronic Hardware
- Software Design
- Mechanics
- Aesthetic Design
- Regulatory Affairs

### **Business critical project successes:**

- Created and introduced worlds' first liver dialysis machine from concept to production
- Introduces country's first system for LDL cholesterol removal from blood; concept to clinic
- Advanced technology (RFID) Radio Frequency Identification system for medical devices
- (RF) Radio frequency Ablation system for tunneling through Total Coronary Occlusions; concept to sales
- Cutting edge Active Antisepsis system for defeating biofilms on implantable prosthetics
- Industry leading Comprehensive hydraulic catheter characterization system
- Designed a new consumer replacement treadmill/ambulatory assist scooter motor controllers

### **EMPLOYMENT HISTORY:**

**Industry wide Business Consultant:** *KlearLabs, LLC, Niwot Colorado*

2007 - present

- Introduced 7 natural healthcare product in the first 10 months
- Developed numerous microprocessor based testers for Diagnostic Ultrasound and high-power RF MRI amplifiers conversions

**Vice President-Research & Development:** *Klearsen Corporation, Boulder, Colorado* 2000 - 2007

- Founded, growing natural healthcare products company at \$2M/yr.
- Introduced 22 natural products in 6 years
- Built clinical studies department to conduct 12 studies over 4 years
- Established microbiology lab with in-house and university facilities
- Transitioned all products into manufacturing
- Directed electronic medical product research and development
- Fluent in DSHEA and 21CFR regulations for dietary supplement market

**President:** *Robinson Laboratories Inc., Golden, Colorado*

1992 - 2004

- Ran engineering development company for consumer and medical products
- Customers included major medical equipment manufacturers
- Designed and put in clinics RF ablation system for coronary arteries
- 30 experimental liver assist devices from conception to clinic in 2 yrs.
- Numerous specialty motor and pump control systems for many products
- Multi-disciplinary projects from concept to manufacturing or clinic
- IRB, IDE and 510(k) experience; UL/TUV/CSA and GMP

**Project Leader:** *Vesta Technology, Inc., Wheat Ridge Colorado*

1988 - 1992

Ran multi-disciplinary engineering projects for contract development company. These projects utilized distributed embedded processors, control systems, electro-hydraulics, mechanics and instrumentation.

**Special Projects Engineer:** *COBE Laboratories, Inc., Lakewood Colorado*

1985 - 1988

Developed numerous pieces of experimental medical equipment and placed them in clinical studies. These machines were microprocessor based and developed in accordance with GDPs for operation under IDE as per FDA guidelines.

**Project Engineer:** *General Electric Medical Systems, Waukesha, Wisconsin*

1982 - 1985

Designed and transferred to manufacturing, numerous motor control systems for radiographic and fluoroscopic imaging systems. Steppers, brushless, AC motor controls and positioning servo systems.

### **EDUCATION:**

BSEE Degree in Electrical Engineering

Emphasis on biomedical applications, instrumentation and control systems.

Washington University, St. Louis, MO

### **Patent and Article List:**

7,153,526 - Treatment of gastrointestinal infections

6,368,286 - Pneumothorax detector

6,936,288 - Method & composition for shingles treatment

5,991,505 - Switching motor control apparatus

6,749,597 - Respiratory infection treatment device

5,209,715 - Automatic force generating and control system

6,738,662 - Electrolytic substance infusion device

5,209,714 - Automatic force generating and control system

6,500,165 - Active antisepsis device

5,064,193 - Automatic force generating and control system

6,472,975 - Electronic I.D. system improved sensitivity

5,058,888 - Automatic force generating and control system

6,454,754 - Respiratory infection treatment device

4,651,337 - Film positioner

Active Antisepsis for the Treatment of Diabetic Foot Ulcers, 2007 JANMA, Volume 3, Number 11, October

Presentation on Respiratory Treatment for Mycobacterium Avium Complex, 2006 ANMA convention

Modern day Poultice, Natural Awakenings, July 2005

Over the Top: An Aerobatic Intro, Plane & Pilot, January 1994

How High the Mooney, MAPA log, July 1995

The Mooney with a Sense of Humor, MAPA log, January 1997

One Down, None To Go, MAPA Log, November 1997

Heaven, MAPA Log, May 1995

Intelligent PID servo positioner, MicroChip Application notes, 1990-2000

**References Available Upon Establishment of Mutual Interest**