Contact

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Top Skills

Medical Devices
Product Development
Engineering

Chris Barron

Co-Founder and CEO at EMBioSys | Empowering patients and providers with a new standard of cancer care
Greater Boston

Summary

Medtech industry executive with over 35 years of product development and commercialization experience. Proven leadership skills with a solid track record in both early start-up and established company environments. Experienced in a broad range of medical device technologies including induced electric field (iEF) therapy for treatment of solid cancers, cardiac assist devices/systems, miniaturization of electronics for implantable devices, therapeutic ultrasound systems, aesthetic laser systems, hard and soft tissue dental lasers, intravenous infusion systems, radio-frequency generators for cardiac, neuro and liver tissue ablation, ECG and EMG data acquisition systems, programmable heart stimulators, and impedance based respiratory monitoring.

Experience

EMBioSys

Co-Founder and CEO
September 2023 - Present (3 years 2 months)
Massachusetts, United States

EMBioSys has developed Efinia™, a revolutionary platform for the treatment of cancer with the potential to dramatically improve clinical outcomes as a new cancer treatment modality starting with breast cancer...then other solid tumors. Efinia™ delivers iEF Therapy (low intensity induced electric fields) to the treat the patient from the comfort of home or while on the go. Our vision is to empower patients and providers with a new standard of cancer care.

Senzime - Innovative patient monitoring

3 years

Vice President of U.S. Operations
September 2022 - February 2024 (1 year 6 months)
United States

- Led operations and logistics support for the U.S. Commercial Team (Sales and Clinical).

- Managed U.S. order fulfillment and customer service for Tetragraph & ExSpiron product lines.
- Technical lead for transfer of the ExSpiron 2Xi contract manufacturing operation from Celestica in Spain, to Senzime AB headquarters in Sweden.
- Managed the U.S. headquarters facility.

Vice President of Engineering
March 2021 - September 2022 (1 year 7 months)

Employment originated at Respiratory Motion Inc.
Senzime AB (Sweden) acquired Respiratory Motion in July, 2022

- Responsible for all engineering, manufacturing, and customer service operations and personnel.
- Led the commercial launch activities for the ExSpiron 2Xi respiratory monitoring system.
- Engineering point of contact with European distributors, managing system localization for nine languages.
- Technical lead for the company's joint venture in China.
- Program manager for consumable second sourcing projects and new neonatal consumable development.

Convergent Dental
Vice President of Engineering
January 2013 - March 2021 (8 years 3 months)

- Core Leadership Team member contributing to product strategy and business initiatives.
- Led the final development of early system prototypes to support investor and fundraising initiatives.
- Researched and down-selected the initial contract manufacturing partner, establishing operations to support domestic and international sales.
- Recruited and led the engineering team to deliver three product platform generations to commercialization (Solea System).
- Implemented the engineering design control process, proven effective through two FDA audits, resulting in no warnings or major findings.
- Oversaw the design, test, documentation, transfer to manufacturing, and release phases for all three of the company's active product platforms.
- Selected and deployed key engineering department operating tools including the Product Lifecycle Management Software (PLM), CAD vault, and the issue tracking database.

- Ongoing partnership with Marketing to develop and maintain the company's product roadmap.
- Ensured products met regulatory compliance requirements for domestic and international sales, to support distribution in the United States, Canada, South Korea, and Germany.
- Mentored and developed the engineering team, resulting in an efficient, cross-functional department.
- Provided ongoing engineering resources and support for the Customer Success and the Field Service teams.

Ivenix, Inc.

2 years 7 months

Director of Biomedical Systems

January 2012 - December 2012 (1 year)

- Multi-functional role:
- Project/Program Manager for the company's first generation intravenous infusion system.
- Department Manager for the hardware test group.
- Management of ongoing activities associated with the system's electronics.

Electrical Engineering Manager

June 2010 - January 2012 (1 year 8 months)

- Core team member providing hands-on design and development of the electronics for the company's first generation intravenous infusion system.
- Established relationships and managed key suppliers for critical components and assemblies of the electrical system.
- Managed schedule to coordinate on-time delivery of electrical sub assemblies to support ongoing system prototype development.

Candela Corporation

Principal Systems Engineer

March 2009 - June 2010 (1 year 4 months)

- Led the cross functional engineering team to develop the company's next generation platform aesthetic/medical laser system. This team included electrical, software, mechanical, system, and optical engineers and technicians of various experience levels.
- Acted as a technical liaison between senior management, sales, marketing, and the engineering department to help develop the company's future product roadmap.

- Constructed project phase plans and milestones.
- Managed the relationships with industrial design firms and consultants.
- Identified and architected product reliability improvements.
- Mentored junior and senior level engineering personnel.

OmniSonics Medical Technologies
Principal Electrical Engineer
January 2006 - January 2009 (3 years 1 month)

- Responsible for all projects, personnel, and laboratories related to the company's electronic hardware and software in a fast paced start-up environment.
- Principle architect and designer of the company's second generation ultrasonic drive system including complex phase lock loop and feedback control topologies.
- Provided departmental engineering support for all products.
- Oversight of product transition from prototype to production.
- Supported contract manufacturing vendors during on-going/sustaining production.
- Mentored junior and senior level engineers, and technicians.
- Managed remote design firms.
- Product design contributions include: OmniWave Endovascular System for treatment of thrombus in the peripheral arteries and veins.

Abiomed
Senior Electrical Engineer and Project Leader
September 1997 - January 2006 (8 years 5 months)

- Core development team member of the AbioCor Artificial Heart System.
- Project Manager and lead designer of the AbioCor Surgical Console and AbioCor Implantable Battery Pack. The system received approval from the FDA in 2006.
- Provided senior level cross-project/department electrical engineering support.
- Additional product design contributions include: AbioCor Implantable Controller, AbioCor External Battery Pack, iPulse Circulatory Support System.

Integra LifeSciences
Electrical Engineer
January 1990 - September 1997 (7 years 9 months)

- Designed radio frequency based medical products from initial concept through prototype, verification, and transfer to manufacturing phases.

- Product design contributions include: Programmable Heart Stimulator (Lead), Pentium based Neurosurgical Workstation, ECG Data Acquisition System, Liver RF Ablation System, and Cardiac RF Ablation System.

Education

Northeastern University

· (1987 - 1992)