

Jeremy Johnson, PhD

"He is passionate about identifying and solving problems, from unmet clinical needs to internal procedural issues...driven by a genuine desire to help others."

— Aine Smalley

R&D Director, Ventures,
Medtronic

"Jeremy's ability to think outside of the box and challenge the status quo enables the type of innovation required for a company to flourish."

— Melissa Jeffries

R&D Engineer, Medtronic

"Jeremy consistently puts the customer first in his decisions and discussions."

— Joe Catanese

Product Dev Mgr, Medtronic

"Jeremy throws himself 100% into any challenge and delivers results."

— Josh Makower, MD

Co-director, Stanford Biodesign

"He is project focused, goal oriented and is willing to do what it takes to get things done right the first time."

— Evan Anderson

Fellow, Stanford Biodesign

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Objective

Create innovative solutions that dramatically improve the experience of managing health or the process of developing new medical therapies.

Experience

Consultant, San Francisco, CA (2009 - 2010)

Force.com Architect & Developer

- Developed custom application for medtech startup to monitor material cost and inventory throughout production cycle. Saved client hardware and software expenses by leveraging Force.com's Cloud Computing Platform.

Medtronic CardioVascular, Santa Rosa, CA (2004 - 2009)

Senior R&D Engineer

- Led validation of potential \$1B market opportunity to expand cardiovascular business. Team backed recommendation with customer input, clinical evidence, and technology analysis.
- Led \$1.5M program to evaluate the safety and efficacy of an experimental drug-device combination therapy for cardiovascular disease. Managed 8-person team that designed and built a surgical delivery device; designed and executed a 28-animal chronic study; and created the regulatory and commercialization strategy. Completed on time and \$300K under budget.
- Developed protocol for using Sonosite ultrasound scanner, Reveal implantable cardiac monitor, and CareLink Programmer; instructed surgical team for above pre-clinical study.
- Developed procedure for precise surgical injection into the myocardium. \$200K saved in R&D costs and regulatory timeline shortened with novel use of commercial ultrasound scanner.
- Led design verification of a guide catheter obtained from a small firm prior to design freeze. Overcame challenges of managing a multi-site team operating under differing quality systems.
- Managed direct reports, gathered physician input, negotiated contracts, managed relationships with vendors and consultants, and performed technical due diligence.
- Proactively promoted innovation—pioneered and administered web-based idea management system; hosted innovation speakers; and co-led internal innovation campaigns resulting in over 30 new business concepts, 70 invention disclosures, and 150 process improvements.
- Submitted 19 invention disclosures; at least 3 patent applications filed.

Interactive Northwest, Intel, Sony, Hughes Research, and Cbyon (6 internships, 1995 - 2000)

Hardware Engineer, Software Engineer, and Image Systems Engineer

- Telecom; ASIC design; color science; image sensor calibration; and virtual endoscopy.

Education

Fellowship, Biodesign Innovation — Stanford University, Stanford, CA (2003 - 2004)

- Experiential education in medical device innovation; focused on neurology & neurosurgery.
- Streamlined team capture and review of needs, concepts, and research with custom database.
- 4-person team identified 300+ unmet clinical needs; brainstormed 100+ concepts; filed 7 patent applications; built and tested prototypes; assessed commercial viability.
- Led team to place 2nd in Stanford business plan competition for novel stroke therapy.

PhD, Electrical Engineering — Stanford University, Stanford, CA (2003)

- Designed and demonstrated novel 3D ultrasound imaging architecture that greatly reduced the hardware cost of real-time 3D ultrasound systems for soft tissue surgical navigation.
- 1st-authored 3 peer-reviewed journal articles and 5 conference publications (21 total).

MS, Electrical Engineering — Stanford University, Stanford, CA (1999)

- Signal processing, digital communications, vision science, and medical imaging

BS, Electrical Engineering, Math Minor, Honors — *Walla Walla College*, College Place, WA (1997)

- Solid engineering fundamentals with emphasis in computer science and digital design

Continuing Education

Business Acumen, Acumen Learning (2009)

Project Leadership, Management, and Communications, ESI & George Wash Univ (2008)

The Cardiovascular System in Health and Disease, Stanford University (2007)

Emerging Entrepreneurs in Biomedical Technology, Stanford Biodesign (2005)