
Thomas A. Wilke

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Technical Manager

Action oriented engineer and manager with deep experience assessing new technologies, establishing technical partnerships, and leading successful project teams. Known for multi-disciplinary project leadership, technical breadth, stakeholder management, and dogged determination. Committed to satisfying customers with products and services that drive technical advancements.

Project Management
Mentoring and Education

Technology Partnerships
Multi-Disciplinary Leadership

Business Processes
Technical Breadth

Career Contributions and Summary

Positivity Engineering, Boulder, CO
President

2016 - Present

Founded private consulting firm engaged in assisting small to medium sized companies achieve business success.

University of Colorado, Boulder, CO

2018 - Present

Instructor Adjunct, Mechanical Engineering

Instructor for capstone Mechanical Engineering Design course. Two-semester course requires students to complete an industry defined and sponsored design project that results in a finished product delivered to the sponsor company.

Medtronic Plc (acquired Covidien Plc), Boulder CO

2008 - 2016

Director, Program Management Office (2010 – 2016)

Built new Program Management Office to consolidate project management of the largest new product development programs in a \$1.6B division of a \$27B medical company.

- Delivered over 15 new products, resulting in total annual revenue exceeding \$1B
- Extensive management of technology partners and suppliers
- Developed and managed project contracts and other project oversight operating mechanisms

Manager, Advanced Manufacturing Engineering (2008 – 2010)

Built a new Advanced Manufacturing Engineering function to transfer new products from design centers in the USA and Ireland to manufacturing sites in Mexico, Ireland, and the Far East.

- Developed new processes and streamlined existing processes
- Improved time-to-market and quality of new products
- Recruited and hired personnel to accomplish new engineering and operations goals

InPhase Technologies, Longmont, CO

2006 - 2008

Vice President of Engineering; Director of Project Engineering

Key leader in start-up company developing high capacity optical data storage products.

- Managed 70 employees consisting of mechanical, electrical, ASIC, firmware, servo, and optical engineers
- Key contributor to propose and close deal with Japanese partner on a multi-million dollar project
- Made regular presentations to Board of Directors, investors, potential customers, and suppliers
- Performed analysis of media quality, component reliability, and opto-mechanical tolerances

Iomega Corporation, Longmont, CO

1997 - 2005

Director of Advanced Development, Director of R&D, Manufacturing Engineering Manager

Managed multi-site engineering and advanced development projects. Developed concepts and managed teams for innovative removable magnetic and optical data storage products using both rigid and flexible media

- Built new optical disk drive business from nothing to \$100M revenue in three years
- Developed and implemented cost reductions and quality improvements on the innovative Zip product line
- Participated in business development efforts, including \$14M sale of intellectual property to international company
- Led advanced engineering teams to develop new product concepts by melding internal inventions with technology leveraged from suppliers
- Coordinated Far East manufacturing and joint development projects
- Managed departments of up to 40 engineers

Additional Relevant Experience**Ohmeda, Incorporated**, Louisville, CO

3 years

Director of R&D, Chief Technical Advisor, Engineering Manager

Managed R&D department of more than 70 professionals responsible for development of medical monitoring products.

- Member of Senior Site Staff charged with running facility with \$100M in annual revenue
- Introduced several new pulse oximetry products, managed development of a medical gas analyzers, and developed new and innovative optical detectors and pathways for IR absorption spectroscopy
- Developed processes and worked with other departments to assure FDA QSR compliance
- Coordinated technical partnership with Germany-based Hewlett-Packard medical division
- Coordinated FMEA and design-for-manufacturability reviews
- Attended key management training programs of parent company, London-based BOC

Masstron Corporation, Boulder, CO

4 years

Manager of Engineering

Managed engineering teams of up to 30 people developing miniature mass spectrometer for medical gas monitoring.

- Led company through start-up phase by assembling a technical team and guiding development
- Performed systems engineering analysis on design ideas
- Conceived and designed key subassemblies
- Found suppliers for custom components
- Built a prototype assembly line
- Made regular technical presentations to investors and shareholders.

Honeywell, Inc., Phoenix, AZ

7 years

Manager of Engineering

Completed prestigious three-year Manufacturing Management Program, consisting of rotating engineering assignments coupled with graduate school at Arizona State University and in-plant management classes

- Completed assignments as manufacturing manager, advanced research engineer, and mechanical design engineer
- Wrote software for business systems and production control
- Graduated from program and completed Masters degree in engineering

Registrations

Registered Mechanical Engineer No. 13155, State of Arizona

Green Belt Six Sigma Certification, Iomega Corp, 1998

Publications"Portfolio Management: Strategies for Device Development Selection," Strategic Medical Device New Product Development Conference, Alexandria, VA, June 8-9, 2015"Holographic Technology Breakthroughs," THIC Meeting at the NCAR, Boulder, Colorado, August 21-22, 2007"DVD and Follow-On Technologies," National Storage Ind. Consortium (NSIC) Optical Disk Storage Roadmap, April, 2003"CD and DVD Technology," National Storage Ind. Consortium (NSIC) Optical Disk Storage Roadmap, February 29, 2000

Invited speaker at FDA regional communiqué on 1997 Quality Systems Regulations (QSR), May 1997, Denver, CO

"Strategies for Agent Identification and Quantification," 31st Annual Meeting of the Association for the Advancement of Medical Instrumentation, 1996."Scanning Absolute Thickness," Conference on Lasers and Electro-Optics, 1986."Automated Material Handling," Circuits Manufacturing, 1984."Advancing Hybrid Manufacturing," International Journal for Hybrid Microelectronics, 1983.**Patents**

7 issued US patents [Nos. 6,717,762; 6,633,445; 6,624,979; 6,578,164; 6,039,697; 4,995,547; 4,859,848]

1 issued EU patent [EP 1292949 (A2)]

Education

MSME Control Systems, Arizona State University, GPA 3.72/4.00, Thesis project (Magnetic Bearing Apparatus and Control System) awarded \$40,000 NSF grant.

BSME, Auburn University, GPA 2.90/3.00, Graduated With Highest Honors, Tau Beta Pi, Phi Kappa Phi, Dean's List