Contact

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Top Skills

Engineering Management
Research Management
Inkjet Product Design
Microfluidics Technology
Robust Design

Patents

Over 35 Patents Granted

Steven J. Dietl

Owner at Pike Lake Consulting, LLC , Expert Witness and Microfluidic Product Development Expert
Rochester, New York Metropolitan Area

Summary

Research and development leader with extensive product development experience and many successful product introductions. Experience in building product development teams and organizational capabilities to deliver new products and new technologies to market. Ability to lead development teams to follow best practices of six-sigma, robust design and lean manufacturing and to rally teams to meet very aggressive objectives. Expatriate engineering leadership experience in S. Korea and co-development / manufacturing experience in China, Germany, Italy, Japan, S. Korea, Taiwan, and Singapore.

Specialties: Ink jet technology product development
In-vitro diagnostic start-up and product development
Science and engineering team leadership and collaborative execution
Robust Design, Six Sigma, Lean Manufacturing / Line Design
Building new teams and rallying existing teams
Multiple successful problem solving and product turn-around assignments
35 US Patents

Experience

Pike Lake Consulting, LLC
Owner, Product Development Consultant, Expert Witness
May 2016 - Present (6 years 10 months)
Rochester, New York Area

Presently consulting as an Expert Witness

Consulted on multiple in-vitro diagnostic research and development projects.

Advised two inkjet companies to identify technical solutions to problems and recommend improvements to product development practices.

Patent Owner's Response
Exhibit 2002, p. 1

AMDX BioSystems, Inc.
VP Engineering & Operations and Co-Founder
2020 - 2022 (2 years 8 months)
Viictor, NY

Co-founded AMDX BioSystems, Inc and lead the product development and manufacturing of microfluidic and biomedical product applications. Led the development of a novel Covid-19 microfluidic home test product from rudimentary academic concept to a working product intent prototype. Project was discontinued after a successful clinical trial because of funding shortfalls to scale up quickly to manufacturing.

SensoDx II, LLC
Vice President of Engineering and Operations
2017 - 2021 (4 years 4 months)
Victor, NY

Led the product research, product development, commercialization and manufacturing operations of the SensoDx point of care immunoassay and cytopathology in-vitro diagnostics systems.

Eastman Kodak Company
14 years 3 months

Director, Digital Front End Development and General Manager, Kodak Creo Servers Business
2015 - 2016 (1 year 5 months) Enterprise Inkjet Systems Division

Development and product platform leader for the Digital Front End and Color Server business. Managed teams in Israel and US, driving growth through market leading technology and robust designs. Served as the General Manager for the Kodak Creo Server business. Led the team to deliver products and drive sales to both the external OEM customers of Creo and internal Kodak Prosper customers.

Director, Product Design & Commercialization R&D, Digital Print & Enterprise Division

2011 - 2014 (3 years 3 months)

Managed the redesign of Kodak's flagship color inkjet press product, working closely with customers, and focusing the team on root cause solutions that provided long term reliability, image quality, and performance improvements. Led the definition, development, and launch of Kodak's "World's Fastest Inkjet Printing Press". Responsibilities include: New product commercialization, sustaining product engineering, product roadmap management, corporate strategic planning, and managing a budget of > $35M. Widely recognized as a change agent using design quality, six sigma, and robust design practices and mentoring for pervasiveness of these practices throughout the organization.

Director, Inkjet Writing Systems R&D

2002 - 2011 (9 years 8 months)

Rochester, NY

Built and led a team of scientists and engineers to bring Kodak's first Consumer Inkjet Printers to market. Led all aspects of the product and manufacturing development and execution processes that brought micro-fluidic MEMS, pigment inks, inkjet media, print heads, ink cartridges, and image science into an integrated system ready for mass production in three years.

Xerox

20 years

Technical Program Manager

1996 - 2001 (5 years)

Led the development of the MEMS drop ejector, print head, ink cartridge, maintenance station and algorithms for the Caribbean and Aruba next generation ink jet printer lines. Responsible for technology selection, subsystem development, integration with the Asian printer mechanism development partner, transfer to mass production, and quality / cost / delivery of the system. During this period I also served as the 30(b)(6) witness for Xerox in a patent law suit with a large consumer printing company.

Product Development Team Leader, XJ4C Rescue Team

1995 - 1996 (7 months)

Osan-Dong, South Korea

Ex-patriot assignment to lead a development team at LGE electronics to drive the completion of a delayed inkjet printer product to market. Mentored the South Korean development team in best practices of robust design, six sigma, process certification techniques, and subsystem development testing and certification.

Design Engineer

1981 – 1995 (14 years)

Product design engineer and subsystem team leader of multiple print head, ink cartridge and maintenance station product subsystems.

Advanced technology development engineer on new inkjet, magnetography, LCD image bar, LED image bar and direct toner marking technologies.

Systems engineer on 3 laser printer product programs.

Education

Rochester Institute of Technology

Master of Engineering, Systems Engineering

State University of New York at Buffalo

Bachelor of Science, Mechanical Engineering

U.S. Patents and Patent Applications

Patent/Application Number	Title
US20020063760A1	Remotely-Powered Ink Cartridge Identification System for an Inkjet Printer
US20030035019A1	Wiper Actuator and Spittoon Assembly
US20040012660A1	Ink Cartridge Having Connectable-Disconnectable Housing and Ink Supply Bag
US20120210580A1	Method of Assembling an Inkjet Printhead
US5159348A	Ink Jet Printing Apparatus
US5233369A	Method and Apparatus for Supplying Ink to an Ink Jet Printer
US5325111A	Removing Waste Ink from Capping Station
US5343230A	Electrical Interconnect Actuation which Interacts with Cap Station Articulation
US5420625A	Ink Supply System for a Thermal Ink-Jet Printer
US5467116A	Ink Jet Printer with Device for Aligning an Ink Cartridge
US5486855A	Apparatus for Supplying Ink to an Ink Jet Printer
US5491501A	Medium for Ink Delivery Systems
US5519425A	Ink Supply Cartridge for an Ink Jet Printer
US5786834A	Method and Apparatus for Storing and Supplying Ink to a Thermal Ink-Jet Printer
US5959649A	Ink Supply System for a Thermal Ink-Jet Printer
US5971531A	Ink Jet Cartridge Having Replaceable Ink Supply Tanks with an Internal Filter
US5997121A	Sensing System for Detecting Presence of an Ink Container and Level of Ink Therein
US6234603B1	Sensing System for Detecting Presence of an Ink Container and Level of Ink Therein
US6264319B1	Pressure Change Accommodating Ink Container and a Liquid Ink Printer Having Same
US6409302B2	Sensing System for Detecting Presence of an Ink Container and Level of Ink Therein
US6447109B1	Liquid Ink Cartridge and Improved Filling Method
US6460962B1	Ink Jet Printer with Sensing System for Identifying Various Types of Printhead Cartridges
US6478398B2	Ink Jet Printer Having a Printhead Assembly for Recording High Quality Graphic Images and Photo Quality Images
US6491368B1	Priming System for Multicolor Ink Jet Printers
US6491371B1	Ink Blotter for an Ink Jet Printer Maintenance Station Providing Increased Ink Carrying Capacity
US6517187B1	Method and Apparatus for Cleaning Residual Ink from Printhead Nozzle
US6523931B1	Method and Apparatus for Priming a Printhead
US6585360B1	Ink Tank Construction to Improve Opening Leakage and Ink Supply/Ink Sensing in an Easily Moldable Design
US6604818B2	Controlled Water Evaporation from Ink Jet Inks
US6669336B1	Ink Jet Printhead Having an Integral Internal Filter
US6709093B2	Ink Cartridge in Which Ink Supply Bag Held Fast to Housing
US6715864B2	Disposable Ink Supply Bag Having Connector-Fitting

Patent/Application Number	Title
US6789874B1	Method of Cleaning Nozzles in Inkjet Printhead
US6908180B2	Ink Delivery Apparatus for Inkjet Printhead
US7350902B2	Fluid Ejection Device Nozzle Array Configuration
US8029117B2	Selectable Fill Volume for Ink Reservoir
US8246141B2	Insert Molded Printhead Substrate
US8485637B2	Carriage with Capping Surface for Inkjet Printhead
US8517514B2	Printhead Assembly and Fluidic Connection of Die
USD425110S	Ink Tank