

Donald G. Parent, PE East Coast Manager

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Professional Summary

Mr. Parent has more than 35 years of experience in the engineering, manufacturing, and sales of fully automated process machines and electrical products. He is a named inventor on more than 20 patents and is a Registered Professional Engineer. Mr. Parent provides expert engineering services and testimony relating to engineering design, manufacturing, failure analysis, product liability, patents and intellectual property.

In prior roles, Mr. Parent led the design of fully integrated computer-controlled machines used worldwide for making CD and DVD discs, men's and women's shaver packaging, mobile phone components, metalized plastic cutlery and cosmetic packaging. He has designed multiple electronic, consumer, and medical products that are in common use. He is experienced in the design of automated machinery for safe operation. He has worked extensively with counsel in drafting patent applications and as a consultant supporting intellectual property litigation.

As an engineering practitioner with depth and breadth in engineering methods, Mr. Parent excels at conveying complex engineering principles to both technical and non-technical audiences. His experience as a presenter at conferences, as a technical sales person and as a teacher of engineers, has taught him how to communicate technical facts to varied audiences.

Mr. Parent holds a Master of Science degree in Mechanical Engineering from Stanford and a Bachelor of Science in Mechanical Engineering from Northeastern University. His broad range of skills encompass product design, mechanical design, heat transfer, fluid mechanics, stress and failure mechanics, thermodynamics, computational methods, controls, design of electrical systems, design for safety, machine interlocking, and failure analysis.

Expertise

- Patents and Intellectual Property Analysis
- Robot-based Manufacturing Systems
- Integrated Molding and Metallizing Systems
- Failure Analysis
- Product Design
- Electric Heaters
- Small Appliances
- Machine Safety and Risk Analysis

Education

Degree	College/University	Year
Graduate work in servo systems and signal processing	University of New Hampshire	1981
Master of Science, Mechanical Engineering	Stanford University	1980
Bachelor of Science, Mech. Eng. (summa cum laude)	Northeastern University	1979
Machine Tool Technology	Central Maine Tech. College	1974

Donald G. Parent, PE - Resume

Experience

East Coast Manager, Steinke Beyer, Inc., Los Altos Hills, CA, 2000 - Present

Engineering consulting relating to machine design, patents, intellectual property analysis, failure analysis, safety, and product liability for more than 18 years.

President, Parent Technology Group, LLC, Windham, ME, 2012 - Present

Led the development of a patented, flexible and drapable solar fabric under a multi-year Broad Area Announcement (BAA) contract with the US Army in partnership with the National Renewable Energy Laboratory (NREL). Engineering consulting relating to product and machine design, patents, intellectual property analysis, failure analysis, safety, and product liability.

VP Sales and Innovation, Marca Coating Technologies, LLC, Scarborough, ME, 2009 - 2011

Sales and intellectual property protection of fully integrated, robot-based, inline, vacuum metallizing and coating machines for plastic cutlery, mobile phones and cosmetic packaging. (Formerly D2 Inline Solutions, LLC)

Founder and President, D2 Inline Solutions, LLC, Scarborough, ME, 2001 - 2009

Engineering development and manufacturing of fully integrated, robot-based, inline, vacuum metallizing and coating machines for plastic cutlery, mobile phones and cosmetic packaging.

President, D2 Systems, Gray, ME, 1998 - 2013

Engineering consulting relating to machine design, patents, intellectual property analysis, failure analysis, safety, and product liability.

Dir. of Engineering, Dir. of Tech. Development, First Light Technology, Saco, ME 1991 - 1998

Led the design and development of patented DVD manufacturing processes. Designed and developed fully integrated, robot-based, automated machines for producing DVD's, CD's, CD-R's and other types of optical discs for customers worldwide.

Vice President of Engineering, Chapman Corp, Portland, ME, 1985 - 1991

Design of patented high voltage static elimination equipment for use in electronics and plastic component manufacturing.

Senior Engineer, GTE Products Corporation, Standish, ME, 1982 - 1985

Design of high power heater devices for industrial, automotive and consumer applications.

Member of Technical Staff, Bell Telephone Laboratory Whippany, NJ, 1979 - 1982

Design of digital tape backup systems. Responsible for magnetic tape and magnetic head components.

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Partial list of Issued Patents

Patents/ Publications	Date	Description
10,060,027	8/28/2018	In-line metallizer assemblies and part-coating conveyor systems incorporating the same
10,014,484	7/3/2018	Photovoltaic Textiles
9,419,236	8/16/2016	Photovoltaic Textiles
15/526,959	5/16/2016	Integrated 3D Metallizer
9,297,064	3/29/2016	In-Line Metallizer Assemblies and Part-Coating Conveyor Systems Incorporating the Same
6,983,925	1/10/2006	Rotary Barrel Gate Valve
6,889,564	5/10/2005	Peak flow meter
6,676,810	1/13/2004	Method of coating insulative substrates
6,511,616	1/28/2003	System and method for curing a resin disposed between a top and bottom substrate with thermal management
6,500,297	12/31/2002	Method of forming bonded storage disks with low power light assembly
6,430,803	8/13/2002	Method for maintaining concentricity of a combination of a top and bottom substrate during the assembly of a bonded storage disk
6,355,129	3/12/2002	System and method for thermally manipulating a combination of a top and bottom substrate before a curing operation
6,352,612	3/5/2002	System for forming bonded storage disks with low power light assembly.
6,254,809	7/3/2001	System and method for curing a resin disposed between a top and bottom substrate with thermal management
6,103,039	8/15/2000	System and method for thermally manipulating a combination of a top and bottom substrate before a curing operation
6,098,272	8/8/2000	System for maintaining concentricity of a combination of a top and bottom substrate during the assembly of a bonded storage disk
5,709,785	1/20/1998	Metallizing machine
5,491,602	2/13/1996	Air distributing and ionizing systems
5,430,923	7/11/1995	Method for removing a cap from a container with a cap engaging unit
5,271,296	12/21/1993	Automated container cap remover and method
5,008,594	4/6/1991	Self-balancing circuit for convection air ionizers
4,780,286	10/25/1988	Insecticide dispenser containing eutectic disconnecter

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Publications and Presentations

1. *Solar Fabrics*, Poster presenter, Advance Functional Fabrics of America, Cambridge, MA, 2019
2. *Solar Fabrics*, Poster presenter, Advance Functional Fabrics of America, Cambridge, MA, 2018
3. *Inline Metallization: The Next Game-Changing Technology in Cosmetic Packaging*, Health and Beauty Association Global Expo, New York City, 2010
4. *Sputtered Metal Coatings and UV Coatings, Working Together*, RadTech Report, November/December 2008
5. *PVD and UV Coatings, Working Together*, Presenter, RadTech 2008, May 2008
6. *Gazebo Project Report*, Mikkeli International Industrial Coating Seminar (MIICS), Mikkeli, Finland, March 2003
7. *Innovations in Sputtering Technology Workshop*, Panelist and Presenter, Replitech Europe, Utrecht, Netherlands, 1998
8. *DVD-9, Perfecting the Process*, Panelist and Presenter, Replitech USA, San Francisco, CA, 1998
9. *Practical Solutions for Gold Sputtering of Recordable Compact Discs*, Society of Vacuum Coaters Conference, 1995
10. *Design for CE compliance*, Presented to American Society of Quality Control, Maine Chapter
11. *A Comparison of Various Ionizer Balancing Methods*, Electrostatic Society of America Conference, Stanford University, Palo Alto, CA, 1988
12. *Benchtop Ionization Workshop*, Panelist, EOS/ESD Symposium
13. *Balancing of Benchtop Ionizers*, Magazine Article, Evaluation Engineering Magazine
14. *DC Motor Selection with Personal Computer Software*, Power Conversion & Intelligent Motion Magazine, August, 1986
15. *DC Motor Selection with Personal Computer Software*, Motor-Con Conference, 1985.
16. *Monitoring Heat Transfer Coefficients using Liquid Crystals*, Master's Project, Stanford University, 1980.

Professional Honors, Affiliations, Achievements

- Registered Professional Mechanical Engineer, Maine #4832
- Member, Northeastern University Engineering Department Industrial Advisory Board
- Member, National Society of Professional Engineers
- Member, American Society of Mechanical Engineers
- Member, American Society of Safety Engineers
- Member, Institute of Electrical and Electronic Engineers
- Mentor, High School Student, Portland Maine
- Mentor, Top Gun Program, Maine Center for Entrepreneurial Development
- Past President, Windham Educational Foundation Board of Directors
- Past instructor, PE Exam review class, University of Southern Maine
- Participant, State of Maine Commission on Science and Technology Literacy