

**David Brookstein, Sc.D.**  
**Professor Emeritus of Mechanical Engineering**  
**Senior Associate Dean (retired)**  
**Temple University College of Engineering**

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**Education:**

- Doctor of Science in the field of Mechanical Engineering, Minor Studies in Management from Sloan School of Management, Massachusetts Institute of Technology, 1976.
- Master of Science in Textile Technology, Massachusetts Institute of Technology, 1973.
- Bachelor of Textile Engineering, Georgia Tech, 1971.
- Harvard Business School Summer Program on Research Management, 1990.
- Harvard University Graduate School of Education MLE Program, 1998.
- Massachusetts Institute of Technology Professional Institute - Data and Models in Engineering, Science and Business, 2006
- Harvard University Graduate School of Education Institute for Education Management, 2007.
- Massachusetts Institute of Technology Professional Institute - Nanomaterials for Biological and Pharmaceutical Technologies – 2008
- MIT Sloan School Executive Education Program “Product Design, Development, and Management” – 2009
- MIT Professional Institute, “From Technology to Innovation: Putting Ideas to Work” - 2010
- MIT Professional Institute, “Mastering Innovation and Design Thinking” - 2019

**Fellow of the American Society of Mechanical Engineers**  
**Fellow of the Textile Institute (United Kingdom)**

**Professional Experience:**

**Temple University College of Engineering**

2024-Present Professor Emeritus of Mechanical Engineering

2014-2024 Professor of Mechanical Engineering and Senior Associate Dean  
Responsible for the Senior Design Capstone Courses for all engineering students  
Responsible for engineering program accreditation from the Accreditation Board  
for Engineering and Technology (ABET)

**Brookstein Consulting LLC**

2000-present Engineering and Litigation Consultant in Fields of Textiles,  
Mechanical Assemblies made from Textile Materials, Garment Systems, Fibers,  
Fabrics and Composites

**ICF Mercantile**

2013-2014 Director of Market Development  
Responsible for Technical and Market Development of antimicrobial, antifungal and  
flame-resistant textile fabrics. Development of new fabric systems for flame-  
resistant garments.

**Montgomery County Community College (PA)**

2012-2013 Dean for Science, Technology, Engineering and Mathematics (STEM)  
Chief Academic Officer for all A.S. and A.A.S. programs in engineering, physical  
sciences, biological science and computer sciences

## **Philadelphia University (formerly Philadelphia College of Textiles and Science)**

- 2010 – 2012      Executive Dean for University Research and Professor of Mechanical Engineering
- 1994 – 2010      Dean and Professor of Mechanical Engineering  
School of Engineering & Textiles
- 2007              Executive Director of Institute for Textile and Apparel Product Safety
- 2008              Executive Director of Pennsylvania Advanced Textile Research and Innovation Center including Biomedical Textile Structures Laboratory
- 2005              Executive Director of Research for Philadelphia University
- 2004-2012      Principal Investigator – DoD Funded program – Laboratory for Engineered Human Protection (LEHP) – program focused on working with US Army to develop new garment-based soldier protection systems. The research and development program was to design, develop and produce prototype chemically protective garments with the required comfort using the latest materials produced in collaboration with selected suppliers.

## **MAG Industrial Automation Systems**

- 2009-2012      Engineering consultant to worldwide manufacturer of engineered automation systems for the aerospace industry

## **Harvard University**

- 2002 – 2003      Visiting Scholar (sabbatical)  
Harvard University Center for Textile and Apparel Research (Division of Engineering and Applied Sciences and Harvard Business School) – Studied trends in patent applications involving textile structures

**Albany International Research Co. - Mansfield, MA**

1992 - 1994            Associate Director  
1983 - 1992            Assistant Director  
1980 - 1982           Senior Research Associate

Directed all activities of the professional engineering group responsible for contract research, development, and manufacture of advanced composite materials and technical polymeric materials and fabrics. Accomplishments include the working with NASA to develop new garment systems for astronauts, working with Rockwell International on textile-based thermal insulation for Space Shuttle, invention of braided fiberglass sucker rods, invention and development of the multilayer interlock braiding system for producing three dimensionally reinforced fibrous preforms for aerospace structures, the development of implantable biomedical devices such as sutures, vascular prostheses, orthopedic implants (knitted and woven) and the development of unique textile-based civil engineering structures. Engineering innovations led to 12 US patents and many other inventions protected by trade secret. Member of the senior management staff of the organization.

**Northeastern University - Boston, MA**

1981-1983    Adjunct Professor in Mechanical Engineering

Taught undergraduate courses in statics, dynamics, and mechanics of deformable bodies and material science.

**Georgia Institute of Technology, College of Engineering**

1975 - 1980            Assistant Professor of Textile    Engineering

Taught and conducted research in the fields of textile and composites engineering with special emphasis on improving the energy efficiency of manufacturing systems. Obtained substantial

funding from US DOE and US DOD. Active participant in College of Engineering co-op undergraduate programs.

Also, during period as professor at Georgia Tech served as:

- Technical consultant for Levi Strauss (garment design in area of comfort);
- Union Carbide (melt blown carbon fiber manufacturing);
- Carborundum (boron fiber manufacturing; and
- Eastman Kodak (textured polyester stretch yarns)

Also, while at Temple University I have consulted for Edwards LifeSciences (textile-based cardiac prostheses)

**Outside Professional Activities:**

- Founding Member of the Greater Philadelphia University Council of Engineering Deans
- Chairman of the National Textile Center (NTC) Operating Board (2006-2007). NTC is a federally funded research consortium consisting of Georgia Tech, North Carolina State, Auburn, Clemson, Cornell, UMASS-Dartmouth, UC Davis and Philadelphia University.
- Advisory Board of the College of Engineering, Georgia Tech (1990-1995).
- President, The Fiber Society (1996)
- Chairman, Textile Engineering Division-American Society of Mechanical Engineers (1994-1996)

**Memberships:**

- American Society for Engineering Education (member of Engineering Deans Council)
- Institute of Industrial Engineers

- ASME - Textile Engineering Division, Chairman, 1980, 1994
- American Conference of Academic Deans
- The Fiber Society - Fiber Society Lecturer, 1986-1987, 1993-1994, President 1996
- SAMPE - Society for Advanced Materials and Process
- The Textile Institute (United Kingdom)

### **Awards and Honors:**

- ✦ American Society of Mechanical Engineers (ASME) – Fellow, 1995
- ✦ ASME - Textile Engineering Division, Chairman, 1980, 1994
- ✦ The Fiber Society - Fiber Society Lecturer, 1986-1987, 1993-1994, President, 1996
- ✦ The Textile Institute (United Kingdom) – Fellow, 1992
- ✦ Georgia Tech Academy of Distinguished Engineering Alumni, 1999
- ✦ Techtexsil Innovation Prize for Exemplary Development in the Field of Technical Textiles and Textile Reinforced Materials, 1993 (Germany)
- ✦ ASTM Harold Dewitt Smith Award, 1998 - for outstanding developments in textile fiber utilization in the design and development of three-dimensional fibrous composites for aerospace applications, biomedical implants, and oil extraction systems

### **Publications and Reports:**

"Deductions about the False-Twist Process from Observations of the Variation of Torque on Detwisting at Heat Set Yarn," with Backer, S., and Thwaites, J.J., Journal of the Textile Institute, 67, p. 183-186, 1976.

"Transient Threadline Behavior in False-Twist Texturing," with Thwaites, J.J., and Backer, S., Journal of the Textile Institute, 67, 1976.

"Mechanics of Texturing Thermoplastic Yarns: Part III. Experimental

Observations of Torsional Behavior of the Texturing Threadline for Pre-Drawn PET Yarns," with Backer, S., Textile Research Journal, 46, pp. 802908, 1976.

"Mechanics of Texturing Thermoplastic Yarns: Part V. Steady State Mechanics of Drawing Texturing," Textile Research Journal, 47, p. 256-266, 1977

"Material-Process Interactions During False-Twist Texturing," with Backer, S., Journal of Applied Polymer Science: Applied Polymer Symposium, 31, p. 6382, 1977.

"Mechanics of Texturing Thermoplastic Yarns: Part VI. Transient Mechanics of Draw Texturing," with Backer, S., Textile Research Journal, 48, p. 198-218, 1978.

"On the Mechanics of Draw Texturing," Journal of Applied Polymer Science: Applied Polymer Symposium, 33, p. 197-202, 1978

"Energy Consumption and Conservation: Textile Drying," ACS Symposium Series, 107/17, 1979

"All That Glitters is Not Gold," Textile World, October 1979

"Energy Conservation in the Textile Industry," ERDA - Phase I Report, DOE, April, 1977, Quarterly Reports, 1976 to 1977

"Energy Conservation in the Textile Industry, Department of Energy Phase II - Report, April 1978

"Processing of Pitch-Based Staple Carbon Fiber," Union Carbide Corporation, November 1977, Final Report.

"Low Thermal Conductivity of PAN-Based Carbon Fiber, Hercules, Inc., Monthly Reports and Final Report

"Development and Demonstration of Energy-Conserving Drying Modifications to Textile Processes Final Report. November 1979

"Optimization of Sucker Rod Pumping Using Novel Material-Systems Concepts," with Skelton, J. and Dent, R., Proceedings of the Sixth Symposium of Engineering Applications of Mechanics, Petroleum Society of CIM, 1982

"Mechanical Characterization of Braided Cylinder," with Tsiang, T.H., and Dent, J., Proceedings of the 29th SAMPE Meeting, 1984.

"Design and Development of a High Stability Truss Chord," with Helmke, R., and Kominos, C., Proceedings of the 30th SAMPE Meeting, 1985.

"Load-Deformation Behavior of Composite Cylinders with Integrally-Formed Braided and Machined Circular Holes," with Tsiang, T.H., Journal of Composite Materials, 19, September 1985.

"Braided Composites: Attachment Considerations, Proceedings of the Composites in Manufacturing, Los Angeles, CA, January 1986.

"Foam Assisted Drying,": with Skelton, J., Petterson, D.R., and Lauchenauer, F., Proceedings of the International Drying Symposium, Cambridge, MA, August 1986

"Joining Methods of Advanced Braided Composites," Composite Structures, 6, p. 87-95, 1986

"Structural Applications of Advanced Braided Composites," Proceedings of the SPE Advanced Polymers Composites Division, November 1988.

"Processing Advanced Braided Composite Structures," Proceedings of the WAM of ASME, Materials Division, November 1988.

"Interlocked Fiber Architecture: Braided and Woven," Proceedings of the 35th SAMPE Meeting, April, 1990.

"Evolution of Fabric Preforms for Composites," Journal of Applied Polymer Science: Applied Polymer Symposium, 47, p. 487-500, 1991.

"A Comparison of Multilayer Interlocked Braided Composites with Other 3-D Braided Composites," 3rd International Tectextil Symposium, 14-16, May 1991, Frankfurt.

"On the Mechanical Behavior of 3-D Multilayer Interlock Braided Composites," with Preller, T., and Brandt, J., DASA-Deutsche Aerospace, Proceedings of NASA Fiber-Tex '92.

"The Evolution of 3-D Composites," Fifth European Conference on Composite Materials," 7-10 April 1992, Bordeaux.

"The Solid Section Multilayer Interlock Braiding System," 4th International Tectextil Symposium, 4 June 1992, Frankfurt.

"On the Mechanical Properties of Three-Dimensional Multilayer Interlock Braided Composites, TECHTEXTIL Symposium, 1993, Frankfurt.

"3-D Braided Composites-Design and Applications," Sixth European Conference on Composite Materials," 20-24 September 1993, Bordeaux

"Concurrent Engineering of 3-D Textile Preforms for Composites," International Journal of Materials and Product Technology, Vol. 9, Nos 1/2/3, 1994.

"Advanced Textile Airbeams for Temporary Shelters, 6th TECHTEXTIL Symposium, 1994, Frankfurt.

"Physical Properties of Twisted Structures" with Ning Pan, Physical Properties of Twisted Structures II Industrial yarns, cords and ropes, Journal of Applied Polymer Science, V 83, 610-630.

"A New Multidisciplinary Engineering Education Initiative", with Govindaraj, M and Tovia, F, American Society of Engineering Education, AC 2007-1064, 2007.

"Multi-component Multiple-layer Woven Textiles for Electronic

Applications."Govindaraj, Muthu, and Brookstein, David. *Ambience 08 Smart Textiles-Technology and Design. Proc. of Ambience 08 International Scientific Conference. Boras, Sweden*: The Swedish School of Textiles, University College of Boras, 2008. 72-78.

“On Current Research Associated with Textile and Apparel Product Safety”, with Govindaraj, M and Pierantozzi, J , Proceedings of the 86<sup>th</sup> Textile Institute World Conference, Hong Kong 2008.

Written testimony to the US Senate Subcommittee of Consumer Protection, Product Safety and Insurance – “Formaldehyde in Textiles and Consumer Products”, April 28, 2009

“Factors Associated with Textile Pattern Dermatitis Due to Contact Allergy to Dyes, Finishes, Foams and Preservatives” , *Dermatologic Clinics*, July 2009.

“Textile-Templated Electrospun Anisotropic Scaffolds for Tissue Engineering and Regenerative Medicine”, Institute of Electrical and Electronic Engineers, Engineering in Medicine and Biology Society Annual Conference, Buenos Aires, September 2010.

“Creating an Infrastructure for Compressed Natural Gas Delivery for Automotive Transportation” - Industry Studies Association of the Alfred P. Sloan Foundation, Pittsburgh, May 2012

“Textile-templated electrospun anisotropic scaffolds for regenerative cardiac tissue engineering”, *Biomaterials* 35 (2014) , pp. 8540-8552  
H, Gözde Şenel Ayaz, Anat Perets, Hasan Ayaz, Kyle D. Gilroy, Muthu Govindaraj, David Brookstein and Peter I. Lelkes

“Shaping New Student Identity as Creatives” in the 21st Century Global Economy “with Keya Sadeghipour, American Society of Engineering Education, 2016

“Work in Progress: Rethinking How We Teach in Engineering Through a Course Redesign Initiative” with Shawn Fagan and Stephanie Fiore, American Society of Engineering Education, 2017

"Work in Progress: Introducing Design Thinking in First-Year Engineering Education" with Keya Sadeghipour, Shawn Fagan and Cory Budischack, American Society of Engineering Education, 2020.

"Design and Development of a Protective Face Mask to Mitigate Community Spread and Prevent Wearer Infection from COVID - 19 Using Design Thinking", COMMONHealth, December 2020

"Public Health Protection Against Bioterrorism via Respiratory Pathogenic Viral and Bacterial Agents using Protective Face Masks" COMMONHealth, April 2021

**PATENTS Consisting of Original Contributions to field of mechanical and textile engineering (Inventor or Co-Inventor):**

1. U.S. Patent 4,290,170 "Device for Aligning and Attenuating Fiber Mats," A device for producing aligned carbon fiber webs for use in composites.
2. U.S. Patent 4,497,866 "Sucker Rod," An elliptical cross-section braided composite rod for pumping oil.
3. U.S. Patent 4,602,892 "Sucker Rod," A braided composite rod and coupling for pumping oil.
4. U.S. Patent 4,841,613 "Pressure Developer or Press Roll Containing Composite Material," A composite press roll with variation of radial stiffness.
5. U.S. Patent 4,909,127 "Braiders," A braider with non-circular braider tracks and a unique package carrier for use with braider.
6. U.S. Patent 5,004,474 "Prosthetic Anterior Cruciate Ligament Design," An artificial ligament device having a tubular woven ligament and being adapted for joining the ends of two bones.

7. U.S. Patent 5,357,839 "Solid Braid Structure" A 3-D system for producing braids.
8. U.S. Patent 5,358,758 "Structural Member" A fiber reinforced structural member produced from a complex woven fabric.
9. U.S. Patent 5,411,463 "Composite Roll and Method of Making" A fiber reinforced roll for papermaking.
10. U.S. Patent 5,501,133 "Apparatus for Making a Braid Structure" A novel manufacturing system for producing 3-D multilayer interlock braided textile and fiber reinforced composite structures.
11. U.S. Patent 5,697,969 "Vascular Prosthesis and Method for Implanting" A fibrous synthetic vascular graft with a combination of resorbable and non-resorbable layers.
12. U.S. Patent 7,144,830 B2 "Plural Layer Woven Electronic Textile, Article and Method"
13. U.S. Patent 9,668,846 "Textile-Templated Electro spun Anisotropic Scaffolds for Tissue Engineering and Regenerative Medicine"

#### **US and European Patent Applications**

1. US 2015/0292677 "Method of Manufacturing a Compressed Gas Cylinder"
2. EPO 0 647 751 A2 "Braided Airbeams and method of making the same"

#### **Non-patented trade secret inventions developed at Albany International Research Co.**

1. Fiber-reinforced composite rocket igniter for Small ICBM and Pegasus Air Launched Vehicle

2. Specialty vascular grafts and bio-absorbable orthopedic implants
3. New method for drying paper during the papermaking process
4. Complex, reduced delamination rocket motor exit cones

### Summary of Testimony

The cases in which I have testified as an expert at trial or hearings are:

1. Herbert v. Avondale Indus., Inc., Case No. 2004-10015 in the Civil District Court the Parish of New Orleans, Louisiana (expert for Uniroyal Holdings, Inc.)
2. Parks v. A.P. Green Indus., Inc., Case No. 45DO1-9902 CT-154 in the Lake County Superior Court, Indiana (expert for Uniroyal Holdings, Inc)
3. DePuy Mitek, Inc (Johnson & Johnson) v. Arthrex, Inc., Case No. 1:04cv-12457-PBS in the U.S. District Court for the District of Massachusetts (expert for DePuy Mitek) – Patent Litigation
4. New Hampshire Ins. Co. v. Total Tool, Inc, Case No. 1:08-cv-05213-AJP in the United States District Court for the Southern District of New York (Expert for St. Paul Yacht Club).
5. United States Senate, Subcommittee of Consumer Protection, Product Safety and Insurance, Committee on Commerce, Science and Transportation  
“Formaldehyde in Textiles and Consumer Products.”
6. Judkins v. HT Window Fashions, Case No. 2:07-cv-00251-GLL in the United States District Court for the Western District of Pennsylvania (Expert for HT Window Fashions) -Patent Litigation
7. Icon Outdoors, LLC. v. Core Resources, Inc., Case No. 1:11cv02967-RDB in United States District Court for the District of Maryland (Expert for Icon Outdoors) – Markman Hearing
8. F. Scott Cikowski & Denise Olack v. Regal Rugs, Inc., NO:

2225-C of 1999, Court of Common Pleas – Luzerne County, PA - Product Liability Litigation

9. LILLEBaby v. Ergobaby/Tula ITC Investigation No. 337-TA-1154 in the International Trade Commission (expert for Ergobaby/Tula) Patent Litigation
10. Heather Poole, et al. v. Twin Hill Acquisition Company, Inc., et al. SUPERIOR COURT OF THE STATE OF CALIFORNIA - IN AND FOR THE COUNTY OF ALAMEDA - Case No. RG17876798 (expert for the plaintiffs) Product Liability Litigation
11. Nike, Inc v. lululemon USA Case No. 1:23-cv-00771-AS in the United States District Court for the Southern District of New York (Expert of lululemon USA) – Patent Litigation

The cases which I have served as an expert witness at for US Patent Trial and Appeal Board (PTAB) are:

1. Target Corporation (Petitioner) v. Destination Maternity Corporation (Patent Owner) IPR 2013-00530 (Expert for Patent Owner)
2. LaRose Industries, LLC (Petitioner) v. Choon's Design (Patent Owner) IPR 2014-00218 (Expert for Petitioner)
3. Ventex (Petitioner) v. Columbia Sportswear (Patent Owner) – IPR 2017-00651 (expert for Ventex)
4. Ce Soir Lingerie (Petitioner) v. Brazabra (Patent Owner) -IPR 2019-01491 (Expert for Petitioner)
5. Arun Agarwal (Petitioner) v. Sachin Jhunjunwala (Patent Owner) PGR 2021-00071 (Expert for Patent Owner)
6. Continental AG, (Petitioner) v. Gates Corporation (Patent Owner) IPR 2021-00466 (Expert for Patent Owner)
7. Edwards LifeSciences (Petitioner) v. Aortic Innovations (Patent Owner)– 2 cases – IPR 2023-01325 and IPR 2021-01151)
8. lululemon (Petitioner) v. Nike, Inc (Patent Owner) IPR – 3 cases-IPR 2023 - 01460, IPR 2024-00159, IPR 2024-01460 (Expert for Petitioner)
9. New Balance Athletics (Petitioner) v. Nike, Inc (Patent Owner) IPR- 2024-00778 (Expert for Petitioner)

I have been deposed as an expert witness in following cases:

1. Intermark Fabric Corp. v. Microfibres, Inc., Case No. 3:02- cv01267- AVC in the United States District Court for Connecticut (expert for Microfibres, Inc)
2. Fabrite Laminating Corporation v. Shailendra Dusaj and Precision Custom Coatings, LLC, C369-03 Chancery Court of Bergen County, New Jersey (expert for Fabrite)
3. Atlanta Attachment v. Leggett & Platt, Inc., Case No. 1:05- cv-1071- ODE in the United States District Court for the Northern District of Georgia (expert for Leggett & Platt, Inc.) Patent Litigation
4. Thermo-Ply v. Ohio Willow Wood, Case No. 8:05-cv- 00779-EAK- MAP in the United States District Court for the Middle District of Florida – Tampa Division (expert for Ohio Willow Wood) Patent Litigation
5. DePuy Mitek v. Arthrex, Inc., Case No. 1:04-cv-12457-PBS in the United States District Court for Massachusetts (expert for DePuy Mitek) Patent Litigation
6. Southern Mills v. Polartec, Case No. 1:07-cv-00893-BBM in the United States District Court for the District of North Georgia (expert for Polartec) Patent Litigation
7. Judkins v. HT Window Fashions, Case No. 2:07-cv-00251- GLL in the United States District Court for the Western District of Pennsylvania (Expert for HT Fashions) Patent Litigation
8. LeMans Corp. v. United States, Case No. 06-00038 in the U.S. Court of International Trade (expert for LeMans Corporation)
9. New Hampshire Ins. Co. v. Total Tool, Inc, Case No. 1:08- cv05213-AJP in the United States District Court for the Southern District of New York (Expert for St. Paul Yacht Club)
10. Thorpe et al v. Davol (C.R. Bard) , Inc. et al, Case No. 1:08-cv00463ML-LDA in the US District Court for Rhode Island (Expert for Thorpe)

11. McDavid Knee Guard, Inc and Stirling Mouldings LTD v. Nike USA Case No, No.: 1:08-cv-06584 in the United States District Court for the Northern District of Illinois, Eastern Division (Expert for Nike) Patent Litigation
12. The Kong Company, LLC v. VIP Products, LLC, C.D. California No.2:10cv07446-VBF –MAN (expert for plaintiff KONG ). Patent Litigation
13. Seirus Innovative Accessories, Inc, v. Cabela’s Inc., S.D. California No. 3:09cv-00102-H –WMC (expert for defendant Cabela’s) Patent Litigation
14. United States of America, *ex rel.* Aaron Westrick v. Second Chance Body Armor, Inc., et al. (D.D.C. No. 04-0280-RWR) and United States of America v. Toyobo Co. LTD and Toyobo America, Inc. (D.D.C. No. 071144-RWR) (Expert for the USA) False Claims Act
15. Minor Stevens et al. v. Graco Children’s Products Inc et al. S.D. Ohio No. 12CV-429 (Expert for Minor Stevens)
16. Jason Dane Harris and Rachel Marie Dabbs Harris v. Fisher-Price, Inc, Mattel, Inc. et al. N.D. Alabama, No.CV 13-00076 –KOB (expert for plaintiff)
17. Destination Maternity Corporation v. Target – *Inter Partes* Review USPTO PTAB Case No. 2013-00531 and Motion to Amend (expert for Destination Maternity Corporation)
18. Zippysack LLC et al. v. Ontel Products Corp, 1:15-cv- 07510 06584 in the United States District Court for the Northern District of Illinois, Eastern Division (Expert for Zippysack LLC) Patent Litigation
19. M-Edge v. LifeWorks Technology 1:2014-cv-0630 in the United States District Court for Maryland (Expert for LifeWorks Technology) Patent Litigation
20. Ventex (Petitioner) v. Columbia Sportswear (Patent Owner) – IPR 201700651 (expert for Ventex) *Inter Partes Review*
21. International Designs LLC. v. Hair Art International in the United States District Court for the Central District of California (expert for International Designs LLC) Patent Litigation
22. LILLEBaby v. Ergobaby/Tula ITC Investigation No. 337-TA- 1154 in the

International Trade Commissions (expert for Ergobaby/Tula) Patent Litigation

23. Continental AG, (Petitioner) v. Gates Corporation (Patent Owner) IPR 202100466 (Expert for Patent Owner)
24. Heather Poole, et al. v. Twin Hill Acquisition Company, Inc., et al. SUPERIOR COURT OF THE STATE OF CALIFORNIA - IN AND FOR THE COUNTY OF ALAMEDA - Case No. RG17876798 (expert for the plaintiffs) Product Liability Litigation
25. Nike, Inc v. lululemon Athletica, (Expert for lululemon) Patent Litigation IPR 2023-01460, IPR 2024-00159, IPR 2024-00960
26. Nike, Inc v. lululemon Athletica (Expert for lululemon) in the United States District Court for Southern District of New York - Patent Litigation

Products that I have consulted on as an expert witness for either patent litigation (including PTAB trials and ITC Evidentiary Hearings), civil fraud, product liability or class action

Patent cases

- Mattress Pads
- Textile-based products for amputees
- Sutures and shoulder surgery implantable items
- Knitted fire-retardant fabrics and garments
- Window shades
- High performance athletic clothing including knitted athletic shoes
- Ski masks
- Maternity garments
- Dog toys
- Children's toys
- Children's blankets
- Thermal insulation garments
- Protective gloves

- Hunting jackets
- Textile manufacturing equipment
- Bed sheets and pillows
- Pool floats
- Hair Extensions
- Baby Carriers
- Digital Printed Garments
- Endless Drive Belts made from Textile Cords
- Bioprosthetic Artificial Heart Valves
- Foam based pillows
- Athletic Footwear

### Product Liability Cases

- Hernia fabrics
- High performance fibers for ballistic vests
- Children's car seats
- Climbing ropes
- Construction straps
- Flame retardant clothing

### Class Action Cases

- Bed Sheets
- Children Sleeping Apparatus
- Flight Attendant Uniforms

### Civil Fraud Cases – Expert for US Department of Justice

- Degradation of Fibers for Bullet Proof Vests