T. Kim Parnell, PhD, PE

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Expertise Highlights

- Medical device/biotechnology – Cardiovascular, Orthopedic, Orthodontic
- Patents & Intellectual Property
- Product Liability; Personal Injury
- Bluetooth, Zigbee, Wireless technology
- System Specifications & Test Procedures
- Composite Materials Design & Damage;
- Plastics, Molding, Manufacturing
- Telephone set design; touchpads; keypads
- Piezoelectric components
- Consumer Electronics & Products
- Laptop computers; keyboards; displays
- Materials & Metallurgy
- Robotic & Laparoscopic Surgical tools;
- Failure Analysis & Reliability
- Fracture & Fatigue
- User experience & system interaction
- User interface design
- Finite Element Analysis of Structures & Fluid/Heat Transfer (FEA/CFD)
- Structural Mechanics, Fluid Mechanics, Heat Transfer, Thermodynamics
- Transducers, Accelerometers, MEMs
- Software design, development, QA
- Green energy: Wind, Solar Trackers, PV Panels; Electric Vehicles, Battery tech
- Shock & Vibration Sensitivity
- Vehicle & Heavy-Truck Crashworthiness
- ATV & Vehicle Design, Crashworthiness
- Numerical Multi-Disciplinary Analysis
- Group Manager & Project Leader;
- Strategic & Budgetary Planning responsibility

Education

Year	University	Degree Awarded
1984	Stanford University	Ph.D., Mechanical Engineering
1979	Stanford University	MSME, Mechanical Engineering
1978	Georgia Tech	BES, Engineering Science & Mechanics (Highest Honors)
2004	San Jose State University	Silicon Valley Executive Business Program (SVEBP)

Ph.D. Thesis: "Numerical Improvement of Asymptotic Solutions and Nonlinear Shell Analysis", June, 1984.

Professional Associations and Achievements

- Registered Mechanical Engineer (PE, M025550) in the State of California
- ASME Fellow; American Society of Mechanical Engineers (ASME)
- IEEE Life Senior Member; Institute of Electrical and Electronics Engineers (IEEE)
- Society for the Advancement of Material & Process Engineering (SAMPE); Society of Automotive Engineers (SAE), Member
- ASM International Member; SMST (Shape Memory and Superelastic Technologies) Member; EDFAS (Electronic Device Failure Analysis Society) Member
- IEEE-SCV Santa Clara Valley Section Award for Member Promoting Women in Engineering; 2024
- IEEE-SCV Santa Clara Valley Section Leadership Award; 2018
- IEEE Santa Clara Valley (IEEE-SCV) Section; Chair-2011, Vice Chair-2010
- IEEE Consultants' Network of Silicon Valley (IEEE-CNSV), Board Member; Chair: 2008-2009
- NAFEMS Member – Composite Materials Working Group (CWG),
- IEEE Vehicular Technology Society (IEEE-VTS); Vice-Chair, 2012-2018; Treasurer 2018-present
- IEEE Consumer Technology Society (IEEE-CT), IEEE Computer Society (IEEE-CS), IEEE Engineering in Medicine & Biology (IEEE-EMBS), IEEE Electronics Packaging Society (IEEE-EPS)

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- Reviewer: *Journal of Composite Materials (JCM); International Journal of Forensic Engineering (IJFE); Shape Memory and Superelasticity, International Journal of Technology Transfer and Commercialization (IJTTC).*
- Chinese American Semiconductor Professional Association (CASPA)

Employment History

From: 2000 **Parnell Expert Consulting; Parnell Engineering & Consulting**
To: Present Sunnyvale, CA; Web: *parnell-eng.com*
Position: *Principal & Founder*

Provides independent engineering consulting & expert witness services for high-technology applications including:

- Medical device/biotech product development & concept design
- Medical device cardiovascular applications across wide product range
- Medical device orthopedic, spinal, prosthetic devices – IP, design
- VC technical due-diligence for prospective medical device investment
- Patent & intellectual property – litigation, IPR, research, due diligence
- Expert Witness & Litigation Support services – multiple technologies
- Nitinol, shape-memory applications; biomaterials applications
- Portable devices, keypads: robust design, reliability & durability
- Cell phone Li-Ion battery failure & fire; protective enclosures;
- Bluetooth, Cellular, Zigbee, Wireless technology
- Solar panel tracker technology; PV Panel technology
- Manufacturing technology; materials applications (metals, polymers)
- Reliability and failure analysis services; accelerated testing
- Research in application & damage of composite materials
- Teaching intensive workshops & training seminars on simulation, design, and reliability for practicing engineers
- Lecturer in Prof. Steve Tsai's *Stanford Composites Design Workshop*
- Composite materials design & applications
- Wind Energy, Solar Energy, Alternative Energy – technology
- Electric vehicles, battery systems: design & development
- Heavy-Truck Rollover, Vehicle & ATV Crashworthiness; Barriers
- Software design, development, user experience, QA, testing
- Applications of CAE, FEA, and High-Performance Computing (HPC)
- Digital Twin Technology—FEA Simulation & Test

From: 2010 **Santa Clara University**
To: 2012 Santa Clara, CA
Position: *Faculty, Mechanical Engineering Department*

Taught courses covering a range of topics including Materials Science, Manufacturing Methods, Composite Materials, Finite Element Methods, Mechanism Dynamics, Computer Graphics, & Design. Advised students on Design, Safety, and Simulation for Student Projects including SAE Formula-Hybrid Vehicles. Research in Composite Materials and High-Performance Computing. Interaction with Industry Advisory Board (IAB) & ABET Certification. Teamed with other faculty for strategic initiatives and equipment/tool grants for research. Promote IEEE, ASME, cross-disciplinary

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initiatives & social media avenues for student networking, professional development & project support.

From: 2006 **MSC Software Corporation**
To: 2010 Sunnyvale, CA
Position: *Senior Manager, User Experience; Lead Application Engineer*

Integrated feedback from customers into user interface design & specifications; Beta testing of prototypes with users; CAE software Product Management role for user interface and analysis tools including:

- Product quality, testing, and improvement; drove customer satisfaction
- Application of advanced analysis technology in design & manufacturing
- Led corporate Wind Energy initiative & revival of Fatigue product
- Composite materials – acknowledged corporate & customer expert
- Customer training courses, workshops, webinars; developed & taught
- Software design, development, QA, testing of commercial apps
- Mentoring and development of junior staff; interviewed & hired staff for India; developed and trained staff using distance learning

Applied finite element technology to applications including automotive, medical device, energy, and electronics. Created customer satisfaction via:

- Customer support & analysis process development; Digital Twin
- Material testing & data reduction for development of properties

From: 1999 **Rubicor Medical, Inc.**
To: 2000 Redwood City, CA
Position: *Director of R&D*

Led the R&D team for this start-up medical device company developing breast diagnostic and therapeutic devices. Designed device considering interaction of Physician with Device and human factors. System included a mechanical subsystem and RF generator/control electronics. Developed initial prototypes and conceptual designs; researched IP and competing technologies.

From: 1986 **Exponent, Inc. and Failure Analysis Associates (FaAA)**
To: 1999 Menlo Park, CA
Position: *Senior Managing Engineer*

Delivered consulting services for failure analysis, accident investigation, product liability, patent/IP, insurance-related litigation, medical device and biotechnology product development, FDA submission, and forensic/failure investigation. Performed analyses involving stress, thermal, & fluid applications; testing of material properties and use of laboratory techniques such as SEM & Optical Microscopy for inspection of material samples. Led the SAE Heavy Truck Crashworthiness, Phase II project with testing & simulation of heavy-truck cabs in rollovers. Managed the Engineering Analysis Group and had profit/loss responsibility for the Engineering Computer Center. Maintained high personal utilization/billable hours and had increasing personal/group profitability with consulting services revenue generation >$600K.

From: 1995 **Stanford University**
To: 1996 Stanford, CA
Position: *Visiting Associate Professor, Mechanical Engineering Department*

Taught graduate courses in Theory of Plates and Theory of Shells in the Applied Mechanics Division (now Mechanics & Computation) of Mechanical Engineering. Part-time appointment while full-time staff-member at Exponent.

From: 1984
To: 1986
Position:

SST Systems, Inc.
Sunnyvale, CA
Principal Engineer in Pressure Vessels, Piping & Structures Division
Managed software development, facilitated university collaboration, developed product specifications and enhancements based on customer feedback, supported and trained over 30 new customers, and created standardized product documentation. Provided sales and technical marketing support to CEO during product launch; formulated go-to-market campaign.

From: 1980
To: 1984
Position:

Stanford University
Stanford, CA
Research Assistant, Mechanical Engineering Department
Established the theoretical basis and developed computational tools for nonlinear shell mechanics. Emphasized computational mechanics and engineering applications, including linear & nonlinear finite element methods and other numerical analysis techniques. Algorithm & software development

From: 1978
To: 1980
Position:

AT&T Bell Laboratories
Indianapolis, IN
Member of Technical Staff (MTS), Physical Design Group
Design, development, and manufacturing of high-volume telecommunication components. Researched and designed dials, keypads, electromechanical systems, and piezoelectric polymer applications. Employed range of materials including elastomers, metals, polymers, and piezoelectrics for keypad and transducer applications. Emphasis on cost, reliability, and manufacturing simplicity. Developed new technologies to ultimately drive field improvements. Applied finite element simulation to improve designs and reduce prototypes.

From: 1976
To: 1977
Position:

General Motors Corporation
Atlanta, GA
Engineering Assistant, Plant Engineering Department
Production line design and manufacturing applications for the GM Lakewood assembly plant. Supervised demolition and production line installation during changeover. Installed automated spotweld robot for sheet metal panels. Studied automotive manufacturing & assembly operations from start to finish.

Selected Grants & Research Programs

SA Photonics, Inc.

- 2013 – Phase I Navy SBIR – Post-IED Hull Inspection Tool, Topic N123-156

Stanford University

- 2012 – Phase II Army SBIR – Development and Implementation of Micro-Mechanics of Failure (MMF) Model for Composites in Commercial Finite Element Codes

Santa Clara University

- 2012 – Kuehler Summer Undergraduate Research Grant – student support for composite materials testing & characterization
- 2011 – Technology Innovation Grant – Acquisition of advanced DSC/TGA System for improved lab capability
- 2011 – Technology Innovation Grant – Acquisition of High-Performance Workstation for advanced simulation of large dynamic and nonlinear systems
- 2011 – Technology Innovation Grant – Materials Laboratory equipment upgrades and reorganization

Selected Presentations

"SMA Seismic Damping Devices: Fabrication, Testing, Analysis, and Projections", SMST-2014, Monterey, CA, May, 2014.

"Mechanical Design for Reliability: What does it Mean?", ASME Santa Clara Valley Section, Sunnyvale, CA, Mar, 2014.

"Prosthetic Feet using Carbon Fiber Composites: Design, Simulation, & Testing", ASME Santa Clara Valley Section, Jun, 2013.

"Mechanical Design for Reliability: Beating the Tough Problems", IEEE-SCV Reliability Society, Santa Clara, CA, Jun, 2013.

"Prosthetic Feet using Carbon Fiber Composites: Design, Simulation, & Testing", MSC Software 50th User Conference, Irvine, CA, May, 2013.

"Composite Materials: Improved Understanding of Composite Failure Mechanisms with DIC Testing & Analysis", Trilion User Conference, Philadelphia, PA, Sep, 2012.

"Medical Device Failures – 'Not so Good, Very Bad, and Truly Ugly'!!", ASM (Materials Information Society) Santa Clara Valley Chapter, May, 2012.

"C-Ply Bi-Angle NCF Tape Seam Assessment & Design Considerations for Automated Tape Laying", Composites Design Forum, JEC Composites Conference, Paris, Mar, 2012.

"Failure of Structures Designed with Composite Material – Delamination", *'Meet the Experts' Forum on Composite Materials*, Joint with Prof. Steve Tsai, SMP Tech, Feb 28, 2012.

"Shape Memory Alloy Fundamentals & Advanced Simulation Techniques for Medical Products", *'Meet the Experts' Forum on Nitinol Properties and Unique Behavior for Medical Product Design*, SMP Tech, Sep 14, 2011.

"Stiffness and Strength of Laminates Fabricated with Bi-Directional Tape", ICCM-18 (International Conference on Composite Materials, Korea, Aug, 2011, (with Daniel D. Melo & Christine Tower))

"Composite Materials – Damage & Delamination", Santa Clara University, Mechanical Engineering Seminar, Feb, 2011

"Composites Damage, Delamination, Failure & Curing" and "Workshop on Mic-Mac/FEA" with Prof. Steve Tsai, Stanford Composites Design Workshop, 2010-2012

"Composite Damage, Delamination, and Failure" and "Workshop on Mic-Mac/FEA" with Steve Tsai, Stanford Composites Design Workshop, Jan, 2010

"Composite Failure Methods – Application Comparisons", Composites Durability Workshop-14 (CDW-14), UCLA, Jul, 2009

"Composites Damage, Delamination, and Failure Analysis", Stanford Composites Workshop, May 2009

"Finite Element Analysis using a Thermomechanical Shape Memory Alloy Model", SMST-2006, Monterey, CA, 2006.

"Medical Device Issues & Trends", in "Biomedical Wave: Opportunities for Non-Biologists**",** MedTech Bridge Seminar Series, 2005.

"Medical Device Development and Entrepreneurship", IEEE Consultants' Network of Silicon Valley (IEEE-CNSV), *www.CaliforniaConsultants.org* , 2004.

"CFD Fundamentals and Applications in Biotechnology", ASME Professional Development Seminar, 2003 & 2004.

"Medical Device Business Opportunities in China", multiple presentations to key government and industry representatives, CASPA Delegation, Oct, 2003.

"Using Simulation with Testing for Maximum Benefit", WESCON 2003, Low Cost Tools: Alternatives for Problem Solving in Development, Design and Application, San Francisco, CA, Aug, 2003.

"Fracture Mechanics: Overview and Applications", Aeronautics & Astronautics Department, Stanford University, May, 1999.

"Integrated Fluid/Thermal/Structural Analysis of a Turbine Blade", American Society of Mechanical Engineers Bay Area Technical Conference, May, 1995.

"Failure Analysis Projects", Mechanical Engineering Department, Stanford University, May. 1992.

"Finite Element Applications in Failure Analysis", Mechanical Engineering Department, Stanford University, Mar, 1991.

"Soil-Pipeline Interaction Associated with a Process-Plant Explosion", Seminar in Solid Mechanics, Stanford University, Nov, 1989.

"*Typical* Failures: Causes and Consequences", Construction Engineering and Management Program, Civil Engineering Department, Stanford University, 1989.

"Shell Analysis Using Personal Computers", Solid Mechanics Seminar, Stanford University, 1985.

Selected Publications

"Numerical evaluation of SMA-based multi-ring self-centering damping devices.", (2021). Smart Materials and Structures. DOI: *https://doi.org/10.1088/1361-665X/ac1d94*. (with M. Salehi, R. DesRoches, and D. Hodgson).

"Numerical Simulation of Seismic Response Control of Frame Structure Using High-Temperature Shape Memory Alloy Wire"; Proceedings of: International Conference on Earthquake Engineering (SE-50EEE), At MAEE, Skopje, Macedonia, May 2013, (with Md. Golam Rashed and Raquib Ahsan).

"Equivalent Properties for Finite Element Analysis in Composite Design", JEC Composites Magazine, No.68 (Bi-Angle NCF Special Issue), Oct, 2011, (with Stephen W. Tsai)

"Stiffness and Strength of Laminates Fabricated with Bi-Directional Tape", ICCM-18, Aug, 2011, (with Daniel D. Melo & Christine Tower)

"How Reliable Is Your Product: 50 Ways to Improve Product Reliability", Mike Silverman, 2011 (2-Book Chapters contributed by T. Kim Parnell).

"Heavy Truck Roll Cage Effectiveness", IMECE2009-12423, Proceedings of IMECE: ASME-Mechanical Engineering Congress and Exposition, Nov, 2009, (with Stephen Batzer, Bruce Enz, Grant Herndon, Chandrashekar Thorbole, Robert Hooker, and Mariusz Ziejewski).

"Composite Failure Methods – Application Comparisons", Proceedings of Composites Durability Workshop-14 (CDW-14), UCLA, Jul, 2009

"Thermoelastic Shape Memory Modeling of Medical Devices with FEA", SMST-2006, The International Conference on Shape Memory and Superelastic Technologies, ASM International, May, 2006, (with Sanjay Choudhry and Jesse Lim).

"Finite Element and Fatigue Analysis of CardioVasc Stent Graft", CardioVasc, Inc., 2004.

"Analysis of Rail Cracking and Development of a Rail Screening Guideline Based on Fracture Mechanics Principles", Fatigue & Durability Assessment of Materials, Components & Structures, Proceedings of the Fifth International Conference of the Engineering Integrity Society, Queen's College, Cambridge, UK, Apr 7-9, 2003.

"Finite Element and Fatigue Analysis of CP Stent Expansion", NuMed, Inc., 2003.

"Evaluation of a Failure in a Chlorine Production Facility", Proceedings of IMECE 2001, ASME International Mechanical Engineering Congress and Exposition, Nov, 2001, New York, NY (with S. Andrew, R. Caligiuri, and L. Eiselstein).

"Physical Testing for Good Analysis: Experimental Validation for Quality Finite Element Analysis of Medical Devices", feature article for *ANSYS Solutions*, Fall 2000 (Machine Design Custom Media, Penton Media, Inc.).

"Finite Element Simulation of 180° Rollover for Heavy Truck Vehicles", ASCE Engineering Mechanics Conference, Baltimore, MD, Jun, 1999 (with Christopher V. White and Shari E. Day).

"Finite Element Analysis of the S670 Cardiovascular Stent", Arterial Vascular Engineering, Inc., 1999.

"Finite Element Analysis of the S660 Cardiovascular Stent", Arterial Vascular Engineering, Inc., 1999.

"Finite Element Analysis of the Six Crown Extra Support Renal Stent – Minimum Dimensions", Arterial Vascular Engineering, Inc., 1998.

"Finite Element Analysis of the SVG Stent", Arterial Vascular Engineering, Inc., 1998.

"Finite Element Analysis of the GFX-II Cardiovascular Stent", Arterial Vascular Engineering, Inc., 1998.

"Analysis of Drill Pipe Joint Failures and Recommendations For Service", Failure Analysis Associates, Inc. Report, Nov, 1997 (with R.D. Caligiuri, L.E. Eiselstein, M. Wu, R. Huet).

"Finite Element Analysis of the GFX Cardiovascular Stent", Arterial Vascular Engineering, Inc., 1997.

"Stress Analysis: AVE MicroStent-II Cardiovascular Stent", Arterial Vascular Engineering, Inc., 1997.

"SAE Report CRP-12 Heavy Truck Crashworthiness – Phase II (180° Dynamic Rollover, Static Roof Crush Simulation)", SAE Headquarters, 1997.

"Heavy Truck 180º Dynamic Rollover and Static Roof Crush Simulation", Failure Analysis Associates, Inc. Report, Apr, 1996 (with C. White, S. Day, T. Khatua, and L. Cheng).

"Fracture Toughness by Small Punch Testing", *Journal of Testing and Evaluation*, Vol. 23(1), pp. 3-10, Jan, 1995 (with J. R. Foulds, P. J. Woytowitz and C. W. Jewett).

"Safety Analysis of Custom Designed Manufacturing Equipment", Proceedings, American Society of Mechanical Engineers Winter Annual Meeting, Safety Engineering and Risk Analysis, New Orleans, Louisiana, Nov, 1993, Vol. 1, pp. 111 (with G. L. Rao and R. D. Caligiuri).

"American Azide Corporation Reactor and Dryer Safety Studies", Failure Analysis Associates, Inc. Report, Jan, 1993 (with G. L. Rao, V. B. Rao, and R. D. Caligiuri).

"Combustion Tests on and Chemical Analysis of Therminol 66 Heat Transfer Fluid Used at American Azide", Failure Analysis Associates, Inc. Report, 1993 (with A. Reza and R. D. Caligiuri).

"Gas Release from Leaky Natural Gas Pipeline: The PEPCON Explosion in Henderson, Nevada", Failure Analysis Associates, Inc. Report, 1992 (with A. Reza, M. El-Fadel and R. D. Caligiuri).

"Computational Modeling of Dynamic Failure in Armor/Anti-Armor Materials", Failure Analysis Associates, Inc. Final Report to U.S. Army Research Office, Contract DAA-L03-88-C-0029, May, 1992.

"Analysis of Cracking in the Windsor Recovery Boiler Superheater", Failure Analysis Associates, Inc. Report to Domtar, Inc., Apr, 1992 (with R. D. Caligiuri, C. H. Lange and S. P. Andrew).

"Analysis of the Dynamic Response of a Buried Pipeline due to a Surface Explosion", *Computational Aspects of Impact and Penetration*, L.E. Schwer and R.F. Kulak, eds., Elme Press International, 1991 (with R. D. Caligiuri).

"Failure Analysis of Aerzen Screw Compressor Male Thrust Bearings", Failure Analysis Associates, Inc. Report to AECI Chlor-Alkali & Plastics, Ltd., Sep, 1991 (with C. C. Schoof).

"Gas Flow and Heat Transfer in a Pipe Tee Joint", Failure Analysis Associates, Inc. Report to Chevron Corporation, Nov, 1990 (with R. D. Caligiuri and A. Reza).

"Development of Dynamic Failure Criteria for Ceramic Armor Materials", Failure Criteria and Analysis in Dynamic Response Symposium, ASME Winter Annual Meeting, Nov, 1990, H.E. Lindberg, ed.

"DYNA3D Analysis of the Dynamic Response of a Buried Pipeline due to a Surface Explosion", DYNA3D User Group Conference, Bournemouth, Dorset, United Kingdom, Sep, 1990.

"Con Edison Hellgate Facilities Gas Main Rupture", Failure Analysis Associates, Inc. Report to Consolidated Edison Company of New York, Inc., Feb, 1990.

"Stress and Fracture Mechanics Analysis of Weld Cracking in a Rotary Ball Mill", American Society of Mechanical Engineers Winter Annual Meeting, Paper 89-WA/DE-17, San Francisco, California, Dec, 1989 (with C. A. Rau, Jr., H. F. Wachob and E. L. Kennedy).

"Analysis of the Plunger-to-Plunger Rod Joint in an Automotive Fuel Injector", Failure Analysis Associates, Inc. Report to Hitachi, Ltd., Oct, 1988 (with P. R. Johnston and B. Ross).

"Analysis of the Circumferential Seam Weld Cracking of Raw Grinding Mills", Failure Analysis Associates Report to Kaiser Cement Corporation, Nov, 1986 (with C.A. Rau, Jr., H.F. Wachob).

"Local Flexibility and Stresses in Cylindrical and Spherical Shells Due to External Loadings on Nozzles and Lug Attachments", A.F.I.A.P. Conference, Paris, France, Oct, 1986.

"Analysis of Piping Systems with Local Nozzle Flexibility Using Personal Computers", American Society of Mechanical Engineers Pressure Vessel and Piping Conference, New Orleans, LA, 1985.

"Numerical Improvement of Asymptotic Solutions and Nonlinear Shell Analysis", Ph.D. dissertation, Stanford University, Jun, 1984.

"Numerical Improvement of Asymptotic Solutions for Shells of Revolution with Application to Toroidal Shell Segments", *Computers & Structures*, Vol. 16, No. 1-4, 1982.

Consulting Projects - Selected

Client: NanoBio Genomics, Inc.
Project: Confidential

Client: Aquedeon Medical, Inc.
Project: Product development associated with implantable Nitinol medical device for aortic aneurysm; Duett product; Radial Stiffness Assessment; Correlate Test & Simulation

Client: Silver Spring Networks, Inc.; Ops A La Carte LLC
Project: Mechanical Accelerated Life Testing and Reliability Assessment of Commercial IoT Network-Connected Natural Gas Metering Equipment; Failure Analysis support; plastic component design, accelerated life testing; remote monitoring;

Client: F-Prime Capital Partners (former Fidelity Biosciences)
Project: Technical Due-Diligence review of prospective stealth-mode medical device investment

Client: SI-Bone, Inc.
Project: Design review of iFuse sacroiliac (SI) joint fixation devices; Competitive comparison

Client: TexasLDPC, Inc.
Project: Business Advisor; Flash Memory Technology development for error-correction; LDPC – Low-Density Parity Check; start-up

Client: Cerevatech Medical, Inc.
Project: Business Advisor; Medical Device developer of innovative Nitinol neurovascular stent and flow diverter devices, start-up

Client: Promed Medical Inc.
Project: Evaluation of deployment failure associated with Nitinol scaffold and bioabsorable PLGA cover material. Test protocols; assessment of data and development of strategy to increase device reliability.

Client: Topera Inc.
Project: Evaluation of Nitinol device failure in test and clinical setting used for 3D mapping associated with treatment of arrhythmia. Comparison of current design with proposed redesign.

Client: LC Therapeutics
Project: Assessment of Nitinol coronary device.

Client: CrossRoads Extremity Systems
Project: Design evaluation of Nitinol orthopedic devices for bone fixation with focus on foot & ankle devices including staples and plates; Report for 510K submission to FDA

Client: Bridgelux, Inc
Project: Design evaluation of LED Outdoor Lighting Module (OLM) for assembly and service conditions; assessment of polymeric, injection-molded components including FRP (fiber-reinforced plastic)

Client: Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.
Project: MEMs Patent Portfolio review and assessment

Client: Design Standards Corporation (DSC)
Project: Design analysis & report for injection-molded surgical ligation clip;

Client: Sirius Engineering LLC
Project: Nitinol Vena-Cava Filter; Implantable cardiovascular medical device

Client: Nitinol Technology, Inc.
Project: Design and assessment of large-scale nitinol components for seismic damping in civil structures (buildings, bridges, roadways); analysis & testing collaboration

Client: Varian Medical, Inc.
Project: Medical radiation oncology capital equipment; shipping hazard assessment

Client: Atsina Surgical LLC
Project: Injection molded surgical ligation clip; material testing; product design, development, and optimization

Client: Home Dialysis Plus
Project: Development of reliability & accelerated testing protocols for innovative dialysis system including mechanical, electronic, & software components

Client: Freedom Innovations, LLC
Project: Carbon Fiber Prosthetic Foot – failure analysis, simulation

Client: Ops A La Carte LLC
Project: Mechanical Design for Reliability classes; failure analysis; simulation of mechanical & thermal performance; accelerated testing and root-cause analysis; TTi Sunseeker solar tracker failure analysis, redesign after full system loss due to damage from high winds;

Client: OLT Solar
Project: Product improvement under high-temperature exposure

Client: VX Aerospace
Project: Composite material product design and validation

Client: Fidelity Biosciences
Project: Medical device due-diligence and technology evaluation pre-investment

Client: DJS Associates
Project: Automated food packaging equipment - failure analysis and assessment of root cause issues

Client: Tribal Engineering, LLC
Project: Various simulation and customer training projects

Client: Gerson Lehrman Group
Project: MEMs Sensors; Various other projects

Client: Ops A La Carte LLC
Project: Various Reliability Consulting projects; Mechanical Design for Reliability Training

Client: Revascular Therapeutics, Inc (acquired by Boston Scientific)
Project: Implantable medical device for treatment of calcified lesions

Client: City and County of San Francisco
Project: Glass failure; Trial prep

Client: Sagalio LLC
Project: Retractable screen for portable cellular devices

Client: New Energy Technologies, Inc
Project: Alternative Energy concept assessment & review

Client: Square One Medical
Project: Implantable medical device design, development, simulation

Client: Kyphon
Project: Device improvement for spinal interventional device

Client: ProMed, Inc
Project: Implantable medical device for spinal application

Client: Nuvation
Project: Instrumentation assessment

Client: Ovalis, Inc
Project: Nitinol PFO Closure Device development and design improvements

Client: Gateway Medical
Project: Vascular Closure Device

Client: Ensure Medical
Project: Vascular Closure Device

Client: Abbott Laboratories
Project: Continued development and cost reduction aspects for StarClose device.

Client: Integrated Vascular Solutions (IVS) (acquired by Abbot Labs)
Project: Design & development of StarClose nitinol closure device for arterial closure following interventional procedures. 2005 MDM Excellence Award

Client: Prolifix Medical
Project: Nitinol device to excise plaque buildup from arteries

Client: Coapt Systems
Project: Bioabsorbable devices for surgical and cosmetic procedures

Litigation Support Experience

Litigation Cases; Depositions & Expert Reports as Shown:

2023 to Present	Client:	Merchant & Gould P.C.
	Case:	*Smarte Carte Inc. and Charles E. Bain v. Innovative Vending Solutions LLC and Innovative Strollers LLC* No. 1:19-cv-08681-NLH-AMD in United States District Court District of New Jersey
	Project:	Patents; Dispensing System for Wheeled Device
	Status:	Deposition, March 2024; Infringement Expert Report; Validity Rebuttal Report; 2024
2023 to Present	Client:	Lipsius-BenHaim Law, LLP
	Case:	*Silverwing Medical LLC v. Adorama Inc. and Kitchen Winners NY Inc. (E.D.N.Y); and Kitchen Winners NY Inc. v. Rock Fintek LLC* (S.D.N.Y.)
	Project:	Inspect, Review, and Chemical Assessment of surgical gloves
	Status:	
2023	Client:	Manning & Kass LLP
	Case:	*Serra Aladag v Williams-Sonoma, Inc., et.al.*, Case No. 22STCV33894, Superior Court of California for the County of Los Angeles
	Project:	Personal Injury (burns) and alleged Product Defect & Product Liability associated with a Water Bottle
	Status:	Settled
2023 to Present	Client:	Wise Morrissey, LLC
	Case:	*David Ness and Nicole Ness v. Grundfos Pumps, Corp*, Case No. , Circuit Court of Cook County Illinois
	Project:	Personal Injury, Product Liability associated with Workpiece ejected from a CNC Lathe
	Status:	
2023	Client:	Johnston & Hutchinson LLP
	Case:	*Childers v Restoration Hardware*, Case No. CIV1801659, Superior Court of California for the County of Marin
	Project:	Personal Injury, Product Liability associated with coating material composition and flaking on a Table
	Status:	Settled
2022 to Present	Client:	McCaulley Law Group; Haley Guiliano LLP
	Case:	*Surgical Instrument Service Company, Inc. v Intuitive Surgical, Inc.*, Case No. , United States District Court, Northern District of California
	Project:	Anti-Trust case associated with EndoWrist devices for Da Vinci surgical robots. Engineering evaluation of repaired devices.
	Status:	Deposition, March 2023; Expert Reports 2023;

2022 to Present	Client:	Spector Roseman & Kodroff, P.C.
	Case:	*RE: Da Vinci Surgical Robot Antitrust Litigation*, Lead Case No. 3:21-cv-03825-vc, United States District Court, Northern District of California
	Project:	Anti-Trust case associated with EndoWrist devices for Da Vinci surgical robots. Engineering evaluation of repaired devices.
	Status:	Deposition, March 2023; Expert Reports 2023;
2022	Client:	Calfee, Halter & Griswold, LLP
	Case:	*LG Electronics, Inc v. Multiple Respondents,* Certain Refrigerator Water Filtration Devices and Components Thereof, Investigation No. 337-TA-1290, United States International Trade Commission (ITC), Washington, D.C.
	Project:	ITC Investigation regarding alleged Validity and Infringement of 3 LGE patents for Refrigerator Water Filtration technology.
	Status:	Settled; Invalidity & Non-Infringement Declarations, June 2022. Deposition, July 2022.
2021 to 2022	Client	Banner Witcoff
	Case:	*Aspen Medical Products, LLC v Breg Inc.*Case No.3:21-cv-00631-WQH-MDD in the United States District Court, Southern District of California
	Project:	Patent matter regarding medical body and cervical support braces
	Status:	Settled.
2021 to 2022	Client:	Dovel & Luner, LLP
	Case:	*Rebotix Repair LLC v Intuitive Surgical, Inc.,* Case No. 8:2020cv02274, United States District Court, Middle District of Florida, Tampa Division.
	Project:	Anti-Trust case associated with EndoWrist devices for Da Vinci surgical robots. Engineering evaluation of repaired devices.
	Status:	Settled; Expert Report, Aug 2021; Deposition, Sep 2021;
2021 to 2022	Client	Gibson, Dunn & Crutcher, LLP
	Case:	United States District Court, Central District of California.
	Project:	Patent matter associated with beverage systems and components
	Status:	Settled.
2021	Client:	Schlichter & Shonack, LLP
	Case:	*KV Inc v Heartstitch, Inc.,* Case No. 30-2019-01051080-CU-BC-NJC in the Superior Court for the State of California, County of Orange
	Project:	Assessment of FDA regulated custom manufactured medical device components for heart surgery. Assessment of conformance and quality.
	Status:	Settled

2021	Client:	Dentons, London, UK
	Case:	Confidential Case - *European Patent Office review*
	Project:	Medical device patent; Support review process
	Status:	European Patent Office (EPO) Declaration 2021;
2021 to 2023	Client:	Rosen & Perry, P.C.
	Case:	*Chamber v. Dollar Tree Store, et.al.;* Case No. , Superior Court, Pennsylvania
	Project:	Personal Injury, warnings, device evaluation; – material and load evaluation of hair device; tissue damage due to pressure
	Status:	Settled.
2021 to Present	Client:	Cogan & Power, PC
	Case:	*Michele Volk v. Stryker Medical, et.al*
	Project:	Investigate microcatheter failure during medical procedure.
	Status:	Ongoing.
2021	Client:	Thompson Coburn LLP
	Case:	*Widdenmeyer v. Zoll Medical, Ranken-Jordan Hospital, et.al.* Case No. , Superior Court, St.Louis, MO
	Project:	Investigate alleged malfunction and defect in AED (Automated External Defibrillator). Site inspection.
	Status:	Resolved
2020 to Present	Client:	Klarquist Sparkman, LLP
	Case:	Various - Patent
	Project:	Medical device patent issues; infringement, validity
	Status:	Ongoing.
2020	Client	Morrison & Foerster, LLP on behalf of Apple, Inc.
	Case:	In RE: Macbook Keyboard Litigation; Various Plaintiffs, vs. Apple Inc.; Case No. 5:18-CV-02813-EJD-VKD United States District Court Northern District of California, San Jose Division
	Project:	Potential Class Action and Class Certification; Laptop Keyboard technology; design, performance, repair rates.
	Status:	Resolved; Expert Report, Sep 2020; Deposition, Oct 2020;
2020	Client:	Baker & Hostetler, LLP
	Case:	*NEXTracker vs. Solar FlexRack and Northern States Metals Co.,* United States District Court, District of Delaware
	Project:	Patents; Solar tracker technology patents associated with Guide Rails, Clamps, etc.
	Status:	Settled; IPR Declaration Oct 2020;

2020 to 2021	Client:	Merchant & Gould P.C.
	Case:	*Otter Products, LLC and Treefrog Developments, Inc. vs Fellowes, Inc.* United States District Court, Northern District of Illinois, Eastern Division;
	Project:	Patents; Consumer Electronics technology for protection of personal electronics (cell phones, tablets, etc.) against drop, moisture, etc.
	Status:	Settled; IPR Declarations: 2-Aug 2020; 2-Dec 2020; 1-Jan 2021; Patent Infringement;
2020 to 2022	Client:	Bienert Katzman PC
	Case:	*Julie Hall, vs. Torax Medical, Inc., Ethicon, Inc., Johnson & Johnson, John Lipham, MD, et.al,* Case No. 30-2019-01078281-CU-PL-CJC in the Superior Court for the State of California, County of Orange
	Project:	Personal injury, product liability associated with medical device to treat Gastric Reflux Disease (GERD)
	Status:	Settled
2020 to Present	Client:	The Cottle Firm
	Case:	*Richard vs. American Honda Motor Co., Inc., Home Depot USA, Inc., et.al.* Case No. A-19-791675-C in the Nevada State District Court, Clark County, Nevada
	Project:	Personal injury, product liability associated with rototiller
	Status:	Deposition Nov 2021; Expert Report May 2020, Aug 2021; Ongoing.
2020 to Present	Client:	Todd Tracy Law Firm
	Case:	*Hendricks v DTNA, Freightliner. et.al*; Cause No. 103610-86 in the District Court, Kaufman County, TX, 86th Judicial District
	Project:	Heavy-truck rollover & crashworthiness; design assessment; product liability
	Status:	Ongoing.
2020	Client:	Todd Tracy Law Firm
	Case:	*Guerra v Navistar*; Case No. 1:18-CV-00321-KG-JFR, United States District Court for the District of New Mexico
	Project:	Heavy-truck rollover & crashworthiness; design assessment; product liability
	Status:	Deposition, Aug 2020; Settled
2019 to 2020	Client:	Singer Davis LLC
	Case:	*McIntosh vs. EVMS Academic Physicians & Surgeons Health Services Foundation, Covidien Holding, Inc., Cook Medical, LLC, et.al.* Case No. CL18-4817 in the Circuit Court for the City of Norfolk Virginia
	Project:	Personal Injury, Product Liability related to Percutaneous Tracheostomy Tube;
	Status:	Settled

2019	Client:	Venable LLP
	Case:	*Disc Disease Solutions, Inc., vs. VGH Solutions, Inc. Dr-Ho's Inc., Hoi Ming Michael Ho.* Case No. 1:15-cv-00188-LJA, United States District Court, Middle District of Georgia, Albany Division
	Project:	Patents; Medical Device, Back-Pain Relief;
	Status:	Settled; Claim construction, invalidity, non-infringement; Claim construction Declaration Aug 2019;
2019	Client:	Baker & Hostetler, LLP
	Case:	*Zadro Products, Inc. vs. SDI Technologies, Inc. d/b/a iHOME.* Case No. 17-1406 (WCB) in the United States District Court for the District of Delaware
	Project:	Patents; Consumer products, LED lighting, mirrors
	Status:	Settled
2019	Client:	Gardella Grace P.A.
	Case:	*Fulfillium, Inc. vs. ReShape Medical, LLC, SV Health Investors, LLC, Intersect Partners, LLC and ReShape Lifesciences, Inc.* Case No. 8:18-cv-01265-RGK-PLA United States District Court, Central District of California, Western Division
	Project:	Patents; medical devices, balloons, weight control
	Status:	Settled; Deposition Aug 2019; Expert Report Aug 2019; Declaration on Motion for Summary Judgement Aug 2019;
2019	Client:	Merchant & Gould
	Case:	*Carlson Pet Products, Inc. v. North States Industries, Inc..* Case No. 17-cv-02529- PJS-KMM, United States District Court for the District of Minnesota
	Project:	Patents, Consumer product; Pet barrier
	Status:	Settled; Declaration, Oct 2019;
2019 to Present	Client:	Todd Tracy Law Firm
	Case:	Multiple cases
	Project:	Heavy-truck rollover & crashworthiness; design assessment; product liability
	Status:	Ongoing.
2019	Client:	Sterne, Kessler, Goldstein & Fox, P.L.L.C. (SKGF)
	Case:	*Lutron v. Geigtech*
	Project:	Patent Post-Grant Review (PGR); Other PTAB actions
	Status:	Suspended
2019 to Present	Client:	Faegre Baker Daniels LLP
	Case:	Confidential MDL Product Litigation
	Project:	Confidential
	Status:	

2019 to 2022	Client:	Rouda Feder Tietjen McGuinn
	Case:	*Margo Schein v. Peak Pilates*
	Project:	Inspection of Pilates Reformer equipment; Accidental injury root-cause assessment; Personal Injury; explain accident scenarios; Support for mediation;
	Status:	Resolved;
2019	Client:	Manning & Kass, Ellrod, Ramirez, Trester LLP
	Case:	*Randy and Giselle Hoehn v. Summit to Sea LLC, Pet Pressure LLC.*
	Project:	Hyperbaric pressure chamber inspection, operation, and design review. Accidental injury investigation.
	Status:	Settled
2018 to 2020	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Miriam Naramore v. Daimler Trucks North America, LLC.* Civil Action No. 1:18-CV-00156 in United States District Court for the Middle District of Georgia, Albany Division.
	Project:	Heavy-truck rollover & crashworthiness; design assessment
	Status:	Settled
2018 to 2021	Client:	Maddin, Hauser, Roth & Heller, P.C.
	Case:	*Larry Esckilsen and Renie Esckilsen v. Oakland Orthopedic Appliances, Inc.;* Case No. 18-036354-NO-1 Saginaw Circuit Court
	Project:	Alleged failure of orthopedic leg prosthetic; personal injury
	Status:	Settled; Deposition, Sep 2020;
2018 to 2019	Client:	Klein, DeNatale, Goldner, LLP
	Case:	*H&M Gopher Control, Allen Hurlburt v. Benchmark Pest Control, Inc., Andrew Ozanich.* Case No. 1:17-CV-01700-JLT, United States District Court for the Eastern District of California
	Project:	Patent technology for control of rodents
	Status:	Settleld; Expert Report, Jan 2019;
2018 to 2019	Client:	Cypress LLP
	Case:	*Kore Essential, Inc v. Nexbelt, LLC.* Case No. 3:17-CV-02129-CAB-JMA, United States District Court for the Southern District of California
	Project:	Patent technology for Ratchet Belt system
	Status:	Settled; Expert Report, Feb 2019;
2018 to 2019	Client:	Pillsbury Winthrop Shaw Pittman, LLP
	Case:	*Lite-On Technology Corp v Darfon Electronics Corp,* Case No. 3:18-cv-02776, United States District Court, Northern District of California.
	Project:	Keyboard technology patents
	Status:	Settled; IPR Declaration Dec 2018;

2018 to 2020	Client:	Honigman Miller Schwartz & Cohn LLP
	Case:	*Tim A. Fischell, Robert E. Fischell, and David R. Fischell v. Cordis Corp, Abbott Laboratories and Abbott Cardiovascular Systems, Inc.*, United States District Court for the District of New Jersey; Civil Action No. 3:16-cv-00928-PGS-LHG
	Project:	Patent family associated with cardiovascular stents
	Status:	Settled; Declaration, Apr 2019;
2018	Client:	Akerman, LLP
	Case:	*Qbex Computadores S.A v. Intel Corporation,* United States District Court, Northern District of California, San Jose Division.
	Project:	Cellular phone ARM microprocessor, alleged product design defect associated with CPU overheating
	Status:	Settled
2018 to 2019	Client:	Davidson, Davidson & Kappel LLC
	Case:	ArcelorMittal Project; *Inter Partes Review Proceeding Against Array Technologies Inc. U.S. Patent 8,459,249*
	Project:	Patent IPR associated with solar panel trackers
	Status:	Settled; Deposition Dec 2018; IPR Declaration Mar 2018;
2018 to 2019	Client:	Ropes & Gray LLP
	Case:	*CPI Card Group, Inc. v. Multi-Packaging Solutions, Inc* , United States District Court for the District of Colorado
	Project:	Patent associated with secure packaging of transaction/gift cards; Testing
	Status:	Resolved
2017 to 2018	Client:	Rimon Law
	Case:	*Imogene D. Johns v. Invacare Corporation,* Tulare County Superior Court Case No. 270201
	Project:	Alleged medical equipment product defect
	Status:	Settled
2017 to 2018	Client:	The Scranton Law Firm
	Case:	*Cesar Lopez & Moses Sepulveda v. DOES-1*
	Project:	Alleged design defect in ATV Rollover Protection System (RoPS); Design and Failure Analysis
	Status:	Resolved;
2017 to 2018	Client:	Troutman Sanders LLP; Vinson & Elkins
	Case:	*Blackbird Tech LLC d/b/a Blackbird Technologies v. Lenovo (United States) Inc.;,* C.A. No. 16-cv-140-RGA, United States District Court for the District of Delaware
	Project:	Patent infringement allegations around laptop computer screen display technology
	Status:	Settled; Declaration May 2018; Deposition Feb 2018; Reply Report Dec 2017; Non-Infringement Report Nov 2017; Invalidity Report Sep 2017;

2017	Client:	White & Case LLP
	Case:	*Maquet Cardiovascular LLC v. Abiomed Europe GmbH and Abiomed R&D, Inc.*; C.A. No. 1:16-CV-10914, United States District Court for the District of Massachusetts
	Project:	Resolved; Multiple Patent & Technology dispute associated with Implantable Circulatory Support System Pumps
2017 to 2018	Client:	Baker & Hostetler, LLP
	Case:	*SCA Hygiene Products AB et.al., SCA Tissue North America, LLC v. Tarzana Enterprises, LLC;* United States District Court, Western District of Wisconsin, No. 3:16-cv-00728
	Project:	Patent infringement claims associated with paper goods manufacturing, stacking, folding, and packaging methods and equipment
	Status:	Settled; Depositions (2) Sep 2018; IPR Response Declarations, Jul 2018 (2), May 2018;
2017	Client:	Vinson & Elkins
	Case:	*Inter Partes* Review of U.S. Patent No. 7,129,931; *Lenovo (United States) Inc. v. Blackbird Tech LLC d/b/a Blackbird Technologies; Blackbird Technology LLC v. Lenovo, Civil Action No. 1:16-cv-00140 in the District of Delaware*
	Project:	Patent IPR and alleged infringement involving laptop computer display apparatus
	Status:	Deposition Feb 2018; Expert Report; IPR Declaration May 2017;
2017 to Present	Client:	The Joe C. Savage Law Firm
	Case:	*Bauer v. Parks, Hyundai Motors America, and Deskins Motor Company and other related cases;*
	Project:	Vehicle Accident Investigation, Design, Crashworthiness, Fire
	Status:	Settled
2017 to 2018	Client:	Hill, Kertscher & Wharton, LLP
	Case:	*Trans Technologies Company v. Hendrickson USA LLC, et.al.*, United States District Court for the Northern District of Georgia, Atlanta Division, Civil Action No. 1:16-cv-01778-AT
	Project:	Patent litigation involving heavy-truck tire inflation/deflation technology
	Status:	Settled; Deposition Jul 2018; Deposition Apr 2018; IPR Declaration Aug 2017; IPR Reply Declaration Feb 2018;

2017 to 2018	Client:	Morgan, Lewis & Bockius LLP
	Case:	*Advanced Circulatory Systems, Inc. v. AutoMedx, Inc.,* and *AutoMedx, Inc v. ZOLL Medical Corp., Advanced Circulatory Systems, Inc.;* CPR Institute for Dispute Resolution, CPR File No. G-16-07
	Project:	Medical Ventilator Technology Development; Medical equipment
	Status:	Settled
2017	Client:	Dorsey & Whitney LLP
	Case:	*Hovik Nazaryan v. FemtoMetrix Inc.*, Superior Court of the State of California for the County of Orange Case No. 34-30- -2015-00795246-CU-BC-CJC
	Project:	Semiconductor lithography equipment technology development
	Status:	Settled
2016 to Present	Client:	Casper, Meadows, Schwartz & Cook
	Case:	*Rovner v. Medtronic, Inc. et.al.* Contra Costa Superior Court, Case No. C16-01768
	Project:	Medical Device defect of NSC spinal lumboperitoneal (LP) Shunt/Valve for hydrocephalus shunting of excess cerebrospinal fluid (CSF); associated personal injury
	Status:	Settled
2016 to 2018	Client:	Rimon Law
	Case:	*Heather Ciechanowski v. Invacare Corporation, Folsom Care Center, Bluff Enterprises, Inc. and Calvin Callaway*, Sacramento County Superior Court Case No. 34-2016-00188724
	Project:	Alleged medical equipment product defect
	Status:	Settled
2016 to 2017	Client:	Rucka, O'Boyle, Lombardo & McKenna
	Case:	*Concepcion Hernandez v. Helen of Troy, Inc;*
	Project:	Medical equipment personal injury
	Status:	Settled
2016 to 2017	Client:	Quinn Emanuel Urquhart & Sullivan, LLP
	Case:	*TriReme Medical LLC v. AngioScore, Inc.*, Northern District of California; Case No. 14-cv-2946
	Project:	Patent litigation involving cardiovascular medical device
	Status:	Deposition, Dec.2016; Expert Reports, Nov.2016 & Dec.2016; Settled
2016 to 2017	Client:	Baker Manock & Jensen, PC
	Case:	*California Fire-Roasted LLC v. General Mills Operations, LLC;* Sacramento County Superior Court Case No. 34-2014-00170784-CU-BC-GDS
	Project:	Patent licensing and royalty case for food-processing equipment
	Status:	Settled

2016 to 2017	Client:	DLA Piper, LLP
	Case:	*Inter Partes* Review of U.S. Patent No. 6,099,882; *Olam West Coast, Inc. v. California Fire-Roasted LLC*
	Project:	Patent IPR involving food-processing equipment
	Status:	Settled; IPR Declarations (2) Oct.2016;
2016 to 2018	Client:	Plews Shadley Racher & Braun, LLP; Bradshaw Law, LLC
	Case:	*Rick C. Sasso, M.D., and SEE LLC v. Warsaw Orthopedic, Inc., Medtronic Inc., Medtronic Sofamor Danek, Inc*, Indiana State Court, Case No. 43C01-1308-PL-44.
	Project:	Patent litigation involving coverage for spinal medical device
	Status:	Deposition Aug 2018; **Patent Trial Testimony Nov 2018**; Jury Verdict for Plaintiff; Upheld on Appeal Dec 2020;
2016 to Present	Client:	Christensen Fonder, P.A.
	Case:	*Willis Electric Co., Ltd v. Polygroup Limited (Macao Commercial Offshore), Polygroup Macau Limited (BVI), Polytree (H.K.) Co. Ltd.,* 15-cv-3443, 3:15-cv-00552, United States District Court for the District of Minnesota.
	Project:	Patent litigation involving modular mechanical and electrical connectors
	Status:	Settled
2016 to Present	Client:	Locke Lord LLP
	Case	*Denneroll Holdings Pty Limited and Denneroll Industries International Pty Limited v. ChiroDesign Group, LLC and Marie L. Webster, Individually and D/B/A ChiroDesign Group;* Civil Action No. 4:15-cv-740; United States District Court for the Southern District of, Houston Division.
	Project:	Patent litigation involving chiropractic pillows
	Status:	Settled; Infringement Expert Report, May 2016; Validity Expert Report, June 2016
2016 to Present	Client:	Mass Montes LLP
	Case:	*Logan W. Hensley vs. Michael J. Skyhar, MD.; Cayenne Medical, Inc., and DOES 1 thru 40, inclusive;* Case no. 37-2015-00005140-CU-MM-NC, Superior Court for the State of California for the County of San Diego, North County Division.
	Project:	Personal injury involving failed medical device and medical practice
	Status:	Settled
2016 to Present	Client:	Hamrick & Evans, LLP
	Case:	*Laurence Johnson vs. Raytheon Company, Systems XT, Inc. Brownco Construction Company, Inc., Power Edge Solutions, Inc. (aka PES Controls), et.al.* United States District Court for the Central District of California; Case No. 2:15-cv-00132-MWF-E.
	Project:	Personal Injury; Product Performance & Product Liability
	Status:	Settled

2015 to 2016	Client:	Nixon Peabody LLP
	Case:	*Johnstech International Corp v. JF Microtechnology SDN BHD* United States District Court for the Northern District of California; Case No. 3:14-cv-02864-JD
	Project:	Patent litigation involving semiconductor test technology
	Status:	Invalidity Expert Report, Non-Infringement Expert Report – Dec 2015; **Patent Trial Testimony – Sep 2016**. Jury Verdict.
2015	Client:	Susman Godfrey LLP
	Case:	*Bonutti Skeletal Innovations, LLC v. Globus Medical, Inc*
	Project:	Patent litigation involving spinal medical devices
	Status:	Settled
2015	Client:	Richardson, Patrick, Westbrook, & Brickman, LLC
	Case:	*Smart v. PACCAR*
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled
2014 to 2018	Client:	Harris and Graves, P.A.
	Case:	*Raven N. Dineen v. Sprint Corp, Asurion Protection Services, LLC and Apple, Inc.,* District Court, Greenville Division, District of South Carolina, No. 6:16-cv-01549-MGL
	Project:	Investigation of alleged cellular telephone defect and Lithium-Ion battery breach; Personal injury (victim sustained burns) due to ignition & combustion of cell phone; Non-Destructive & Destructive Inspections
	Status:	Settled; Deposition Oct 2017; Expert Report, July 2015, July 2017;
2014 to 2019	Client:	Law Offices of David McQuade Leibowitz, P.C.
	Case:	*Ricardo Garza v. Daimler Truck of North America (DTNA), Freightliner LLC;* Texas Circuit Court, Bexar County, Texas
	Project:	Heavy Truck Crashworthiness
	Status:	Trial Testimony Sep 2019; Deposition Jul 2018; Expert Report Apr 2018; Jury Verdict;
2014	Client:	Kolisch Hartwell, P.C.
	Case:	*TMI Products, Inc. v. Rosen Entertainment Systems, L.P* United States District Court for the Central District of California; Case No. EDCV12-02263 RGK (SPx)
	Project:	Patent case involving consumer electronics & vehicle entertainment applications
	Status:	Settled; Deposition March 2014; Declaration & Report March 2014; Declaration & Rebuttal Report March 2014;

2014 to 2018	Client:	Corsiglia, McMahon, & Allard
	Case:	*Avalos v. Balt, Stanford Hospital & Clinics, et.al.*
	Project:	Personal Injury during Medical Procedure & Medical Device Product Liability; Failure analysis of micro-catheter for neurovascular treatment; embolization of a cerebral AVM during procedure at Stanford Hospital
	Status:	Settled
2014 to 2015	Client:	The Previant Law Firm, S.C.
	Case:	*Kaminski v. DongGuan, et.al.*
	Project:	Personal injury (eye damage) due to failure of consumer product (elastomeric strap tie-down); Failure analysis, material testing, and evaluation of elastomeric material components
	Status:	Settled; Expert Report, July 2014
2013 to 2015	Client:	Guajardo & Marks, LLP
	Case:	*Bertha A. Flores Individually and as Representative of the Estate of Jose Flores, et.al. v Daimler Trucks North America, LLC.* United States District Court for the Southern District of Texas, Corpus Christi Division, and is Civil Action No. 2:13-cv-87
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled, Mar 2015 Deposition, Feb 2015; Report, Oct 2014
2012 to 2014	Client:	Edwards Life Sciences; Kilpatrick, Townsend & Stockton, LLP
	Case:	*Medtronic v. Edwards* Case No. 11-CV-1650-JNE/JSM (D. Minn.)
	Project:	Medical device patent claims, infringement & invalidity
	Status:	Settled Invalidity Report Aug 2013; Non-Infringement Report Oct 2013; Deposition Oct 2013, Oct 2012
2013 to 2014	Client:	US Securities and Exchange Commission
	Case:	*Securities and Exchange Commission (SEC) v. Inteligentry, Ltd., Plasmerg, Inc., PTP Licensing, Ltd., and John P. Rohner in Civil No. 2:13-CV-00344-GMN-NJK*
	Project	Securities associated with "Plasmic Transition Process Engine" technology; Technology assessment
	Status:	Resolved
2013 to 2015	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Walker v. PACCAR, Inc;* Alabama Circuit Court, Barbour County; 06-CV-2013-900032.00
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled

2013	Client:	Retained in a metal component manufacturing technology patent litigation case.
	Case:	*Confidential*
	Project:	Metal manufacturing process patent for smart-phone and consumer electronics applications
2013 to 2015	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Lacy v. Freightliner*
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled Mar 2015
2013 to 2015	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Jones vs. Daimler Truck North America (DTNA)* Alabama Circuit Court
	Project:	Heavy Truck Rollover & Crashworthiness
	Status:	Settled Nov 2015; Deposition Jan 2014
2012	Client:	Smart-phone technology patent litigation case involving embedded electro-mechanical components
	Case:	*Confidential*
	Project:	Patent issues associated with specific user-feedback technologies
	Status:	
2010 to 2015	Client:	Warren & Associates, LLC
	Case:	*Jones vs. MSE Hauling*
	Project:	Heavy Truck Rollover
	Status:	Settled Nov 2015; Deposition Jan 2014
2009 to 2014	Client:	Schwarz & Mongeluzzi; Nelson, Levine, DeLuca & Horst
	Case:	*Carrera v. Navistar*
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled 2014; Deposition Feb 2013
2010	Client:	Sico, White, Hoelscher & Braugh L.L.P.
	Case:	*Ramirez v. Sterling Truck*
	Project:	Heavy-Truck Rollover & Crashworthiness
	Status:	Settled; Expert Report; Deposition May 2010
2008 to 2010	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Thibadeaux vs. PACCAR*
	Project:	Heavy-Truck Rollover Accidents
	Status:	Settled; 2010.
2008 to 2010	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Price vs. Navistar*
	Project:	Heavy-Truck Rollover Accidents
	Status:	Settled; 2010.

2008 to 2009	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Martin vs. Kenworth*
	Project:	Heavy-Truck Rollover Accidents
	Status:	Settled; 2009.
2007	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Strode v. Freightliner, LLC;* Civil Action No. 02-132 Circuit Court of Greene County Alabama
	Project:	Heavy-Truck Rollover Accident
	Status:	Settled; 2007. Testified at trial.
2006	Client:	Gibson, Dunn, & Crutcher
	Case:	*Jang v. Boston Scientific Corp., et.al.* United States District Court, Central District of California; Eastern Division – Riverside; Case No: EDCV 05-00426 VAP (SGLx)
	Project:	Patent case for matters involving design features of Cardiovascular Stents.
	Status:	
2005	Client:	Beasley, Allen, Crow, Methvin, Portis & Miles, P.C.
	Case:	*Mongan vs. MACK Truck*
	Project:	Retained as fact witness in heavy truck rollover accident.
	Status:	Settled, 2005
2005	Client:	Lucas Wash Petway Tucker & Stephens, P.C.
	Case:	*Gable v. International Truck & Engine Corporation* United States District Court, Middle District of Pennsylvania; Civil Action No: 3:03-CV-01353
	Project:	Heavy-Truck Rollover Accident
	Status:	Closed; Deposition June 2005.
2004	Client:	Kenyon & Kenyon Intellectual Property Law Firm
	Case:	*Medtronic Vascular, Inc. vs. Boston Scientific Corp., et al.* C.A. No. 98-478-SLR (D-Del)
	Project:	Patent case involving Cardiovascular Stent design
	Status:	Closed; Expert Report filed;
1997	Client:	Grimaldi, Pearson,and Weyand, P.C.
	Case:	*Herbolsheimer v. Warner-Swasey* Case No. 9357487NP
	Project:	Product defect of CNC machine equipment
	Status:	Closed; Deposition.
1994	Client:	Jones, Jones, Close & Brown
	Case:	*Pioneer Chlor-Alkali Co., Inc. v. National Union Fire Insurance Co.*, United States District Court, District of Nevada, Case No. CV-S-93-276-HDM (RLH)
	Project:	Accident investigation, insurance claim.
	Status:	Closed; Deposition.

1994	Client:	Clapp, Moroney, Bellagamba, Davis and Vucinich
	Case:	*Thomas Fujisaka and Sandra Fujisaka v. Livermore Valley Unified School District*, Superior Court of the State of California In and For the County of Alameda, Case No. 700921-1
	Project:	Accident Investigation, Personal Injury
	Status:	Closed; Deposition.
1994	Client:	GEA In-House Counsel
	Case	*GEA Power Cooling Systems, Inc. v. Hyspan Precision Products*, Superior Court of the State of California for the County of San Diego, Case No. 669769
	Project:	Product Liability; Failure analysis root cause.
	Status:	Closed; Deposition.
1993	Case	*Bobbye J. Phaneuf v. Edith D. Roman*, Superior Court of the State of California County of Alameda, Case No. H - 154330-4
	Project:	Product Design.
	Status:	Closed; Deposition, Trial.
1993	Case:	*Patricia C. Barbera v. H. B. Instrument Company*, Superior Court of the State of California In and For the County of Marin, Case No. 138929
	Project:	Product Design.
	Status:	Closed; Deposition, Trial.
1990	Client:	Chevron In-House Counsel
	Case:	*Secretary of Labor v. Chevron U.S.A, et al.*, Occupational Safety and Health Review Commission, Region 9, OSHRC Docket No. 89-3125
	Project:	Accident investigation; Failure analysis root cause.
	Status:	Closed; Deposition.

Trials & IPRs:

2020	Case:	*NEXTracker vs. Solar FlexRack and Northern States Metals Co.,.* United States District Court, District of Delaware
	Status:	IPR Declaration Oct 2020;
2020	Case:	*Otter Products, LLC and Treefrog Developments, Inc. vs Fellowes, Inc.* United States District Court, Northern District of Illinois, Eastern Division.
	Status:	IPR Declarations 2-Aug 2020; 2-Dec 2020; 1-Jan 2021;
2019	Case:	*Ricardo Garza v. Daimler Truck of North America (DTNA), Freightliner LLC;* Texas Circuit Court, Bexar County, Texas
	Status:	Testified in Trial, Sep 2019

2018	Case:	*Lite-On Technology Corp v Darfon Electronics Corp,* Case No. 3:18-cv-02776, United States District Court, Northern District of California.
	Status:	IPR Declaration Dec 2018;
2018	Case:	*Rick C. Sasso, M.D., and See LLC v. Warsaw Orthopedic, Inc., Medtronic Inc., Medtronic Sofamor Danek, Inc*, Indiana State Court, Case No. 43C01-1308-PL-44.
	Status:	Testified in Patent Trial, Nov 2018
2018	Case:	*SCA Hygiene Products AB et.al., SCA Tissue North America, LLC v. Tarzana Enterprises, LLC;* United States District Court, Western District of Wisconsin, No. 3:16-cv-00728
	Status:	IPR Response Declarations, July 2018 (2), May 2018;
2018	Case:	Davidson, Davidson & Kappel LLC; ArcelorMittal Project
	Status:	IPR Declaration, Mar 2018;
2017	Case:	*Trans Technologies Company v. Hendrickson USA LLC, et.al.*, United States District Court for the Northern District of Georgia, Atlanta Division, Civil Action No. 1:16-cv-01778-AT
	Status:	IPR Declaration Aug 2017; IPR Response Declaration Feb 2018;
2017	Case:	*Lenovo (United States) Inc. v. Blackbird Tech d/b/a Blackbird Technologies*, Review of U.S. Patent No. 7,129,931;
	Status:	Deposition Feb 2018; Expert Report; IPR Declaration May 2017;
2016	Case:	*Olam West Coast, Inc. v. California Fire-Roasted LLC; Inter Partes* Review of U.S. Patent No. 6,099,882
	Status:	IPR Declarations (2), Oct 2016;
2016	Case:	*Johnstech International Corp. v. JF Microtechnology SDN BHD;* Action 14-cv-02864-JD, US Federal Court, District of Northern California
	Status:	Testified in Patent Trial, Sep 2016
2007	Case:	*Strode v. Freightliner, LLC;* Civil Action No. 02-132 Circuit Court of Greene County Alabama
	Status	Testified in Product Liability/Personal Injury case;
1995	Case:	*Bobbye J. Phaneuf v. Edith D. Roman*; Superior Court of the State of California County of Alameda, Case No. H-154330-4
	Status:	Testified in Product Liability/Personal Injury case;

1994	Case:	*Patricia C. Barbera v. H. B. Instrument Company*; Superior Court of the State of California In and For the County of Marin, Case No. 138929
	Status:	Testified in Product Liability case;