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Curriculum Vitae

Brian G. Pfeifer, Ph.D., P.E.

850.583.5510 · BPfeifer@Qforensics.com

BACKGROUND

Dr. Pfeifer is an Engineering Expert with over 25 years of experience investigating thousands of cases involving a variety of forensic engineering issues. He is a leading expert in accident reconstruction, roadside safety, maintenance of traffic, commercial vehicle accidents, pedestrian accidents, bicycle accidents, and the analysis of mechanical systems and product failures. Dr. Pfeifer has a strong background in the design, development, and implementation of roadside safety hardware including guardrails, bridge rails, and crash cushions. Over 33 patents have been filed worldwide on behalf of Dr. Pfeifer and associated colleagues who invented safer guardrail systems, vehicle storage systems, shipping container handling systems, and material handling and storage methods. He has also utilized his technical knowledge and understanding of patents to assist in a number of matters involving patent litigation.

Dr. Pfeifer has published numerous papers to various organizations, covering topics such as new guardrail systems, energy absorbing guardrail terminals, breakaway sign mechanisms, and material handling technology. He has shared his expertise with many organizations on topics including vehicle collisions, bicycle accidents, roadway construction zones, and accident reconstruction expert witness utilization. Dr. Pfeifer is a registered Professional Engineer in eight states and he continues to refine his skills and knowledge of accident reconstruction and roadside safety by staying current with new technology and best practices. Dr. Pfeifer has extensive experience with providing deposition and trial testimony as an Engineering Expert.

AREAS OF EXPERTISE

- Automobile Collisions
- Tractor-Trailer Collisions
- Guardrails / Bridge Rails
- Construction Zones
- Bicycle Accidents
- Pedestrian Accidents
- Motorcycle Accidents
- Occupant Kinematics
- Roadside Safety
- Airbag Control Module (ACM) Analysis
- Tractor Trailer Electronic Control Module (ECM) Analysis
- Product Failure Analysis
- Maintenance of Traffic (MOT) Evaluation
- Restraint System Analysis
- Patent Litigation Technical Analysis

PROFESSIONAL LICENSES & CERTIFICATIONS

- Licensed Professional Engineer, Florida, #53037
- Licensed Professional Engineer, Alabama, #28207
- Licensed Professional Engineer, Arizona, #76040
- Licensed Professional Engineer, California, #M41438
- Licensed Professional Engineer, Missouri, #2022017849
- Licensed Professional Engineer, Nebraska, #E-7968
- Licensed Professional Engineer, North Carolina, #057407
- Licensed Professional Engineer, South Carolina, #ELS.42159 E
- Certified Counter Balanced Forklift Operator
- Florida Advanced Work Zone Traffic Control
- FAA Remote Pilot Certification, #4250439

EDUCATION

- Ph.D., Civil Engineering, University of Nebraska, Lincoln, NE, 1997
- M.S., Mechanical Engineering, University of Nebraska, Lincoln, NE, 1992
- B.S., Mechanical Engineering, University of Nebraska, Lincoln, NE, 1990
- Certification in Biomedical Engineering, University of Florida, Gainesville, FL, 2002

PROFESSIONAL EXPERIENCE

2019 – Present | Quality Forensic Engineering, LLC | President and CEO, Tallahassee, FL

1997 – 2019 | BEC Consulting, LLC | Principal – 2000 to 2019, Tallahassee, FL
| Senior Engineer 1997 to 2019, Tallahassee, FL
BEC Industries, LLC | General Manager – 2015 to 2019, Tallahassee, FL
| Director of Engineering – 2004 to 2015, Tallahassee. FL

1987 – 1997 | Midwest Roadside Safety Facility | Research Associate Engineer - 1990 to 1997, Lincoln, NE
| Research Assistant Engineer - 1987 to 1990, Lincoln, NE

1995-1997 | Interstate Steel Corporation | Consulting Engineer, Big Springs, TX

NOTABLE PROJECTS

Roadside Safety Developments

Dr. Pfeifer has been involved in a number of advances that have been made regarding the safety of roadsides. During his tenure at the Midwest Roadside Safety Facility, he was involved in the design and evaluation of a number of roadside appurtenances including guardrails, bridge rails, crash cushions, and guardrail terminals, as well as breakaway signs and luminaires. Perhaps the most notable of these projects was the development and testing of a new energy absorbing guardrail terminal which was the subject of his Doctoral Dissertation. Dr. Pfeifer has utilized this knowledge and experience to analyze numerous cases involving interaction with roadside appurtenances over the years.

Material Handling

While serving as General Manager for BEC Industries, Dr. Pfeifer was the Program Manager and Chief Engineer for a number of military contracts involving the development of shipboard material handling systems. One of these programs involved the development of an automated system for handling pallet-sized containers on the new CVN aircraft carrier. This patented system is capable of automatically storing and retrieving pallet-sized containers. This system greatly reduces the manpower necessary to handle material aboard the ship and increases storage efficiency.

Dr. Pfeifer also led a program funded by the Military Sealift Command (MSC) for the development of a system capable of automatically storing and retrieving 20-foot ISO containers in a shipboard environment. This system provides the military with selective discharge capabilities and allows them to operate in a sea-base environment.

Amphibious Vehicle

Dr. Pfeifer was involved as an expert in an interesting and tragic case that involved a “Duck Boat” crossing over into oncoming traffic and impacting a bus traveling the opposite direction. This World War II era amphibious vehicle had been repurposed to transport passengers on combination land/water tours. He was retained to evaluate the effectiveness of a median barrier, had one been in place at the time of the incident.

Patent Litigation

Dr. Pfeifer has utilized his education and experience to provide technical expertise in patent litigation. One of these investigations involved patent infringement claims related to automated material handling systems being utilized in warehouse environments. Dr. Pfeifer has also consulted on patent litigation matters involving roadside safety devices and protective barriers.

PROFESSIONAL ASSOCIATIONS

- American Society for Testing and Materials – Member of Committee E30 on Forensic Sciences and E58 on Forensic Engineering (ASTM)
- American Society of Mechanical Engineers (ASME)
- American Society of Civil Engineers (ASCE)
- Florida Engineering Society (FES)
- National Society of Professional Engineers (NSPE)

HONORS AND AWARDS

- American College of Forensic Examiners, Diplomat
- Marquis Who’s Who in Science and Engineering, 1999
- Transportation Research Board A2A04 Committee, Best Paper Award, 1993
- Toastmasters International, CTM Certification
- University of Nebraska-Lincoln Honors Program

COURSEWORK/CONTINUING EDUCATION

April 2023 | “The Importance of Tires in Accident Investigation” by T.J. Tennant, World Reconstruction Exposition, Orlando, FL

April 2023 | “Autopsy of Primus (Biofidelic Dummy)” by Michael Weyde, World Reconstruction Exposition, Orlando, FL

April 2023 | “Methods for Establishing Motorcycle Impact Speed” by Louis Peck, World Reconstruction Exposition, Orlando, FL

April 2023 | “Bicycle and Electric Bicycle Performance” by Roman Beck, World Reconstruction Exposition, Orlando, FL

April 2023 | “Toyota TSS VCH Research and Testing” by Tim Reust and James Morgan, World Reconstruction Exposition, Orlando, FL

April 2023 | “Commercial Vehicle Collision Mitigation Systems – More than just Radar Love” by Tim Cheek, David Plant, and Wesley Grimes, World Reconstruction Exposition, Orlando, FL

April 2023 | “Underride Reconstruction, Reporting, and Regulations” by Aaron Kiefer and Perry Ponder, World Reconstruction Exposition, Orlando, FL

April 2023 | “Reconstruction of Autonomous Vehicle and ADAS Tech Collisions” by Alan Moore, World Reconstruction Exposition, Orlando, FL

April 2023 | “Guardrail End Terminal Crash Reconstruction” by Lawrence Wilson, World Reconstruction Exposition, Orlando, FL

April 2023 | “The Future of Recon: Data Driven” by Louis Peck, World Reconstruction Exposition, Orlando, FL

April 2023 | “A Historical Perspective on Technology in Recon – Then and Now” by Wade Bartlett, World Reconstruction Exposition, Orlando, FL

April 2023 | Crash Testing, World Reconstruction Exposition, Orlando, FL

May 2022 | “Technology & Accident Reconstruction” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Slips, Trips & Falls: Awareness and Avoidance” by Traci K. Campbell, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Fieldwork Safety Procedures” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Cyber Security Training” by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

December 2021 | “Download and Analysis Techniques for Hyundai and Kia Vehicles” and “Engine Control Modules” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

July & October 2021 | "Photogrammetry Techniques and Procedures" by Patrick D. Weber, Quality Forensic Engineering, LLC, Tallahassee, FL

July 2021 | "Fieldwork Safety Procedures" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

June 2021 | "Cyber Security Training" by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

April 2021 | Recertification Training and Testing for FAA Part 107 Remote Aircraft Pilot Licensing

April 2021 | "Operator Safety Training - Sit-down Counter Balance Forklifts," Ring Power Lift Trucks, Jacksonville, FL

Jan 2021 | "OC: Laws and Regulations Governing Florida Professional Engineers, Approval #0010158"

July 2020 | "Tractor Trailer Inspection 101" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

July 2020 | "Berl iVe Overview" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

April 2020 | "FDOT Advanced Refresher Temporary Traffic Control", American Traffic Safety Services Association, Fredericksburg, VA

February 2020 | "Fundamentals of CDR Downloads" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | "ACM Repowering Rig and the CDR900" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | "Fieldwork Safety Procedures" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

March 2019 | Training Course for preparation for the FAA Part 107 Exam for Certification as a Remote Aircraft Pilot

February 2019 | "The Engineer as an Expert Witness (Engineering Ethics)", National Society of Professional Engineers, Alexandria, VA

February 2019 | "Laws and Regulations Governing Florida Professional Engineers", Florida Board of Professional Engineers, Tallahassee, FL

April 2018 | "Operator Safety Training – Sit-down Counter Balance Forklifts", Ring Power Lift Trucks, Jacksonville, FL

July 2016 | "FARO 3-D Laser Scanner", FARO Technologies, Lake Mary, FL

April 2016 | "Advanced Refresher Maintenance of Traffic Training", American Traffic Safety Services Association, West Palm Beach, FL

November 2013 | "Florida's New Expert Opinion Evidence Standard", Florida Workers' Compensation Institute, Tallahassee, FL

May 2012 | "Florida Advanced Work Zone Traffic Control", American Traffic Safety Services Association, Jacksonville, FL

July 2011 | "ARAS 360 3D Computer Diagramming for Crash Reconstruction", ARAS 360 Technologies Inc., Tallahassee, FL

June 2011 | "Safe Operation of Powered Industrial Truck", BEC Consulting, Tallahassee, FL

February 2008 | "Engineering Fundamentals of Rail Freight Terminals, Yards, and Intermodal Facilities: Current Practices in Design and Construction", The University of Wisconsin, Orlando, FL

February 2006 | "Project Management", American Management Association, Lake Buena Vista, FL

July 2005 | "Programmable Logic Controllers", National Technology Transfer, Inc.

April 2004 | "Analysis of Collisions Involving Pedestrians or Bicyclists", Collision Safety Institute, Tallahassee, FL

September 2003 | "Crash Data Retrieval System Operator", Collision Safety Institute, Tallahassee, FL

May 2003 | "Advanced Work Zone Traffic Control", Florida Institute of Consulting Engineers, Tallahassee, FL

Fall 2002 | Clinical Shadowing, University of Florida, Gainesville, FL

Fall 2000 | Introduction to Biomedical Engineering II, University of Florida, Gainesville, FL

Spring 2000 | Introduction to Biomedical Engineering I, University of Florida, Gainesville, FL

Spring 2000 | Biomaterials, University of Florida, Gainesville, FL

March 2000 | "Commercial Vehicle Inspection and Collision Investigation", Texas A&M University, Tallahassee, FL

March 2000 | "Advanced Commercial Vehicle Inspection and Collision Investigation", Texas A&M University, Tallahassee, FL

March 1999 | Truck Safety Inspection Program, Safety Management Councils, Sponsored by Florida/Georgia Trucking Associations

September 1998 | "Tire and Vehicle Dynamics", Michelin North America, Reno, Nevada

May 1998 | "Traffic Accident Reconstruction", Northwestern University Traffic Institute, Tallahassee, FL

Spring 1993 | “Vehicle Dynamics”, University of Nebraska, Lincoln, NE

Fall 1991 | “Failure Analysis”, University of Nebraska, Lincoln, NE

Spring 1991 | “Advanced Topics in Roadside Safety”, University of Nebraska, Lincoln, NE

PUBLICATIONS

Pfeifer, Brian G., “Offshore and Intermodal Applications of the GRID System”, International Port and Terminal Technology Conference, Savannah, GA, May, 2014

Pfeifer, Brian G. and C.E. Benedict, “Streamlining Container Handling with the GRID System”, Port Technology International, Edition 56, November 2012

Pfeifer, Brian G., “Automation of Container Handling with the GRID System”, presented at the International Port and Terminal Technology Conference, Houston, TX, April 2011

Pfeifer, Brian G., “Streamlining Container Handling with the GRID System”, presented at the International Port and Terminal Technology Conference, Houston, TX, April 2009

Pfeifer, Brian G. and D. L. Sicking, “NCHRP Report 350 Testing of the BEST System”, paper presented to the Transportation Research Board, Washington, D.C., 1999

Reid, J.D., D.L. Sicking, R.K. Faller, and Brian G. Pfeifer, “Development of a New Guardrail System”, paper presented to the Transportation Research Board, Washington, D.C., 1998

Pfeifer, Brian G., “Development and Simulation of an Energy Absorbing Guardrail Terminal”, Ph.D. diss., University of Nebraska, 1997

Pfeifer, Brian G. and D.L. Sicking, “Development of a Metal Cutting Guardrail Terminal”, paper presented to the Transportation Research Board, Washington, D.C., 1996

Faller, R.K., M.A. Ritter, J.C. Holloway, Brian G. Pfeifer, and B.T. Rosson, “Performance Level 1 Bridge Railings for Timber Decks”, paper presented to the Transportation Research Board, Washington, D.C., 1993

Holloway, J.C., R.K. Faller, Brian G. Pfeifer, E.R. Post and D.E. Davidson, “Performance Level 2 Tests on the Missouri 30-in. New Jersey Safety Shape Bridge Rail”, paper presented to the Transportation Research Board, Washington, D.C., 1992

Pfeifer, Brian G., J.C. Holloway, R.K. Faller, et al., “Full-Scale Crash Tests on a Luminaire Support 4-Bolt Slip base Design”, paper presented to the Transportation Research Board, Washington, DC, 1992

Pfeifer, Brian G., “A Study of Breakaway Mechanisms Incorporated in Traffic Signs”, Master’s thesis, University of Nebraska, 1992

PRESENTATIONS

Pfeifer, Brian G., “CLE Presentation - Bicycle & Pedestrian Accidents”, Allen Law Firm, Gainesville, FL, November 2023

Pfeifer, Brian G., "CLE Zoom Presentation – Technology & Accident Reconstruction", Treasure Coast Association, October 2023

Pfeifer, Brian G., "CLE Zoom Presentation – Tractor-Trailer Collision Reconstruction & Related Technology", Alabama Defense Lawyers Association, July 2023

Pfeifer, Brian G., Guest Speaker "CLE Presentation – Tractor-Trailer Collision Reconstruction & Related Technology" Allen Law Firm, July 2023

Pfeifer, Brian G., Guest Speaker "Products Liability", FJA - 2023 Expert Webinar Series, Florida Justice Association, May 2023

Pfeifer, Brian G., Guest Speaker for Dr. Jonathan Walker Webinar, Ethos Health Group/Florida Spine & Injury, January 2023

Pfeifer, Brian G., "CLE Lunch Presentation – Technology & Accident Reconstruction", Capital City Justice Association, November 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Technology & Accident Reconstruction", Paralegal Association of Florida, Inc., November 2022

Pfeifer, Brian G., "CLE Zoom Presentation - Tractor-Trailer Collision Reconstruction & Related Technology", Central Florida Trial Lawyers Association, July 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Accident Reconstruction 101, Working with Your Expert", Erie County Assigned Counsel Panel, July 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Bicycle & Pedestrian Accidents", Tampa Bay Trial Lawyers Association, June 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Bicycle & Pedestrian Accidents", Alabama Defense Lawyers Association, June 2022

Pfeifer, Brian G., "Mock Trial Exercise", Quality Forensic Engineering, LLC, June 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Accident Reconstruction 101", Jacksonville Justice Association, May 2022

Pfeifer, Brian G., "Tractor-Trailer Collision Reconstruction & Related Technology", Quality Forensic Engineering, LLC, Tallahassee, FL, May 2022

Pfeifer, Brian G., "Pedestrian & Bicycle Accident Reconstruction", Quality Forensic Engineering, LLC, Tallahassee, FL May 2022

Pfeifer, Brian G., "Accident Reconstruction 101", Quality Forensic Engineering, LLC, Tallahassee, FL, May 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Accident Reconstruction 101", Florida Justice Association's Expert Webinar Series, April 2022

Pfeifer, Brian G., "Lessons Learned in the Engineering Business", Virtual Guest Lecturer for Zach Collier Entrepreneurship Class, March 2022

Pfeifer, Brian G., "CLE Zoom Presentation – Accident Reconstruction 101, Working with Your Expert", Tampa Bay Trial Lawyers Association, May 2021

Pfeifer, Brian G., "CLE Zoom Presentation – Accident Reconstruction 101, Working with Your Expert", Alabama Defense Lawyers Association, April 2021

Pfeifer, Brian G., "CLE Zoom Presentation - Accident Reconstruction 101, Working with Your Expert", Presented to multiple law firms, 2021

Pfeifer, Brian G., "CLE Zoom Presentation - Tractor-Trailer Collision Reconstruction & Related Technology", Presented to multiple law firms, 2021

Pfeifer, Brian G., "CLE Zoom Presentation – Tractor-Trailer Accident Reconstruction & Related Technology", Alabama Defense Lawyers Association, January 2021

Pfeifer, Brian G., "Raising the Bar Virtual CLE Week – Accident Reconstruction 101: Working with Your Expert", Central Florida Trial Lawyers Association, October 2020

Pfeifer, Brian G., "CLE Zoom Presentation – Tractor-Trailer Accident Reconstruction & Related Technology", FJA 2020 Masters of Justice, September 2020

Pfeifer, Brian G., "CLE Zoom Presentation – Tractor-Trailer Accident Reconstruction & Related Technology", Tampa Bay Trial Lawyers Association, September 2020

Pfeifer, Brian G., "CLE Zoom Presentation – Tractor-Trailer Accident Reconstruction & Related Technology", Jacksonville Justice Association, July 2020

Pfeifer, Brian G., "Tractor-Trailer Accident Reconstruction & Related Technology", Rembolt Ludtke Firm, Lincoln Nebraska, March 2020

Pfeifer, Brian G., "CLE Presentation on Tractor-Trailer Accident Reconstruction & Related Technology", Pensacola Area Defense Counsel, November 2019

Pfeifer, Brian G., "Tractor-Trailer Accident Reconstruction & Related Technology", Keenan Trial Institute, August 2019

Pfeifer, Brian G., "Mock Expert Examination and Cross-Examination", Keenan Trial Institute Trucking Seminar, May 2019

Pfeifer, Brian G., "Two Engineers and an Architect – Use of Accident Reconstructionist in Auto and Premises Liability Cases", Tampa Bay Trial Lawyers Assoc. Panel Discussion, August 2018

Pfeifer, Brian G., "How to Effectively Work with Accident Reconstruction to Better Present Your Clients' Case", Manasota Trial Lawyers Board Dinner Meeting w/Rick Swope, March 2017

Pfeifer, Brian G., "Accident Reconstruction Basics and Cross Examination", Palm Beach County Justice Association (PBCJA) SCOPE X Attorney Seminar, December 2016

Pfeifer, Brian G., "How to Better Utilize Your Accident Reconstruction Expert Witness", Civil Litigation for Paralegals & Legal Assistants Seminar, June 2016

Pfeifer, Brian G., "Auto Accident Reconstruction Expert", Florida Justice Association's Expert Webinar Series, April 2016

Pfeifer, Brian G., "Roadway Construction Zones - What could go wrong?", Florida Justice Association's "Hell on the Highways IV" Conference, St. Augustine, FL, December 2015

Pfeifer, Brian G., "Evaluating the Bicycle Case – an Expert's Perspective", Florida Justice Association's "Hell on the Highways III" Conference, Boca Raton, FL, December 2014

Pfeifer, Brian G., "Investigating Auto Cases – How to Work with Your Expert to Prepare Your Case", Florida Justice Association's Masters of Justice Seminar, Orlando, FL, September 2014

Pfeifer, Brian G., "Things Aren't Always What They Seem: Reconstructing the Tricky Crash", Florida Justice Association's "Hell on the Highways" Conference, Tampa, FL, December 2013

Pfeifer, Brian G., "Construction Zone Accidents – What Went Wrong", Florida Justice Association's "Hell on the Highways" Conference, St. Augustine, FL, December 2012

Pfeifer, Brian G., "Automation of Container Handling with the GRID System", International Port and Terminal Technology Conference, Houston, TX, April 2011

Pfeifer, Brian G., "Streamlining Container Handling with the GRID System", International Port and Terminal Technology Conference, Houston, TX, April 2009

Pfeifer, Brian G., "Animation—Fact or Fiction?", American Bar Association's Trucking Law Seminar, New Orleans, LA, March 16, 2001

Pfeifer, Brian G., "Animation—Fact or Fiction?", Defense Research Institute, Las Vegas, NV, February 21, 2001

Pfeifer, Brian G., "Animation—Fact or Fiction?", Alabama Defense Lawyers Association, Destin, FL, June 2000

Pfeifer, Brian G., "Automobile Accident Reconstruction", American Surety and Casualty Company, Jacksonville, FL, June 1999

Pfeifer, Brian G., "Low Speed Rear End Impacts", Hunt Insurance Group, Tallahassee, FL, November 1998

PATENTS

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Rebecca Jeppson Bladen, Richard E. Lackinger, James R. Dobbs, et al., "Automated Automotive Vehicle Parking/Storage System", Chinese Patent No. 2011800491332, filed August 11, 2011 and issued August 17, 2016

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Richard E. Lackinger, et al., "Overhead Vehicle Storage System", Chinese Patent No. ZL2007800354790, filed May 3, 2007 and issued November 25, 2015

Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers", Hong Kong Patent No. HK1144185, filed March 2, 2007 and issued February 6, 2015

Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers", European Patent No. 2,146,894, filed March 02, 2007 and issued June 25, 2014

Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers", Chinese Patent No. 2007800519399, filed March 02, 2007 and issued June 04, 2014

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger, "Automated Automotive Vehicle Parking/Storage System", U.S. Patent No. 8,734,078, filed August 12, 2010 and issued May 27, 2014

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger, "Warehouse Storage System," U.S. Patent No. 8,651,790, filed May 02, 2007 and issued February 18, 2014

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, Scott K. Bladen, et al., "Material Handling and Storage/Warehouse System", U.S. Patent No. 8,628,289, filed August 12, 2010 and issued January 14, 2014

Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Automated Shipboard X-Y Track Material Handling and Storage Method", U.S. Patent No. 8,408,863, filed April 26, 2010 and issued April 2, 2013

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Vehicle Storage System", Korean Patent No. 10-1189876, filed April 7, 2009 and issued October 04, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Warehouse Storage System", Australian Patent No. 2007300406, filed May 2, 2007 and issued July 19, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Vehicle Storage System", Australian Patent No. 2007300407, filed May 02, 2007 and issued July 19, 2012

Benedict, Charles E., Scott K. Bladen, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers", U.S. Patent No. 8,206,074, filed July 9, 2010 and issued June 26, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Boat Storage System", Korean Patent No. 10-1158168, filed April 27, 2009 and issued June 03, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Port Storage & Distribution System for International Shipping Containers", Singaporean Patent No. 154968, filed March 02, 2007 and issued May 15, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Boat Storage System", Canadian Patent No. 2,664,191, filed May 3, 2007 and issued January 10, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Vehicle Storage System", Canadian Patent No. 2,664,184, filed May 3, 2007 and issued January 3, 2012

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Warehouse Storage System", Singaporean Patent No. 151383, filed May 3, 2007 and issued November 15, 2011

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Boat Storage System", Singaporean Patent No. 151422, filed May 3, 2007 and issued November 15, 2011

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Vehicle Storage System", Singaporean Patent No. 150963, filed May 3, 2007 and issued October 14, 2011

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Overhead Boat Storage System", Chinese Patent No. 2007/800354146, filed May 3, 2007 and issued October 12, 2011

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Warehouse Storage System", Korean Patent No. 10-1063683, filed April 27, 2009 and issued September 01, 2011

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, and Scott K. Bladen, "Automated Material Handling System with Load Transfer Vehicles", U.S. Patent No. 7,931,431 B2, filed September 5, 2006 and issued April 26, 2011

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger, "Overhead Vehicle Storage System", U.S. Patent No. 7,909,558 B2, filed May 2, 2007 and issued March 22, 2011

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, et al., "Overhead Boat Storage System", U.S. Patent No. 7,850,412 B2, filed May 2, 2007 and issued December 14, 2010

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, James R. Dobbs, Scott K. Bladen, and Richard E. Lackinger, "Port Storage and Distribution System for International Shipping Containers", U.S. Patent No. 7,753,637, filed March 1, 2007 and issued July 13, 2010

Benedict, Charles E., Brian G. Pfeifer, Christian A. Yates, and Scott K. Bladen, "Automated Shipboard Material Handling and Storage System", U.S. Patent 7,708,514, filed March 31, 2004 and issued May 4, 2010

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Automated Automotive Vehicle Parking/Storage System", U.S. Patent Application No. 12/855017, filed August 12, 2010

Benedict, Charles E., Scott K. Bladen, James R. Dobbs, Brian G. Pfeifer, et al., "Port Storage and Distribution System for International Shipping Containers", U.S. Patent No. 7,753,637, filed March 1, 2007 and issued July 13, 2010

Sicking, Dean Leo, and Brian G. Pfeifer, "Guardrail Terminal", U.S. Patent No. 6,505,820, filed October 1, 1999 and issued January 14, 2003

Sicking, Dean Leo, John Douglass Reid, Ronald Keith Faller, Brian G. Pfeifer, et al., "Guardrail System", U.S. Patent No. 6,416,041, filed December 26, 1996 and issued July 9, 2002. International Patent Application No. PCT/ US96/ 20911

Sicking, Dean Leo, John Douglass Reid, Ronald Keith Faller, Brian G. Pfeifer, et al, "Guardrail System", U.S. Patent No. 6,260,827, filed January 5, 1996 and issued July 17, 2001

Sicking, Dean Leo, and Brian G. Pfeifer "Guardrail Cutting Terminal", U.S. Patent No. 6,022,003, filed November 7, 1994 and issued February 8, 2000. International Patent Application No. PCT/US951/4606, Israel Patent No. 115890, issued March 12, 1999, and Canadian Patent Application No. 2,204,528