

David Roy Clark, Ph.D., P.E.
Curricula Vitae



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I. WORK EXPERIENCE

ErgoTech Apr 1982-present
Flushing, Michigan. Owner and engineering consultant. Mechanical, electrical, and industrial engineering analysis and design. Occupational and consumer product safety, forensic engineering. Investigation of occupational and consumer product accidents; expert witness testimony in litigation procedures.

J. M. Miller Engineering, Inc. Jan 1982-present
Ann Arbor, Michigan. Investigation of occupational and consumer product accidents in preparation for expert witness testimony in litigation procedures, including accident reconstruction, safety standards review, and human factors. Development, training, and maintenance relative to computer data processing and engineering analysis requirements

EFI Global of Michigan, LLC, a subsidiary of Sedgwick Claims Management Services, Inc. Mar 2015-Feb 2022
(Unified Consulting, LLC, through June 2018; Unified Investigations & Sciences, Inc., through June 2016) Great Lakes Service Center, 2 locations in Owosso and Clinton Twp, MI; Flint MI Field Office. Forensic Engineer. Mechanical and electrical engineering. Also support fire origin-and-cause investigations. 280+ projects.

Ultralight Consulting Feb 2015-Dec 2019
Milford, Michigan. Business process analyst and database solutions designer.

MCA, Inc. Feb 2013-Dec 2014
Grand Blanc, Michigan. Director of Operations. Direct in-office support of services focused on implementing process and product development, waste reduction and productivity improvement of labor, project management, estimation, accounting and customer care. Client base includes contractors, trade unions, and trade associations from coast to coast and in Canada.

Kettering University Jul 1986-Dec 2012
(GMI Engineering & Management Institute through 1997), Flint, Michigan
Adjunct Professor Jan 2011-Dec 2012
Professor Emeritus of Industrial Engineering Jun 2012
Professor of Industrial & Manufacturing Engineering Jul 2006-Dec 2010
Program Director of Industrial & Manufacturing Engineering Apr 2003-Jul 2005
Associate Professor of Industrial Engineering, with Tenure Jul 1990-Jun 2006
Assistant Professor of Industrial & Systems Engineering Jul 1986-Jun 1990

Teaching (undergraduate Industrial Engineering, undergraduate/graduate Manufacturing Systems Engineering programs, and Continuing Education) and research in the areas of ergonomics/human factors/safety, workplace design, design of experiments, and computer applications.

Globe University Oct 2010-Oct 2011
Woodbury, Minnesota. Consultant and Dean of Engineering. Development of proposals to initiate new school of engineering. Programs included Software, Computer, Electrical, and Industrial Engineering and/or Engineering Technology

Design Systems, Inc. Aug 1995-Mar 1996
Farmington Hills, Michigan Aug
Faculty Co-op. Ergonomics project engineer and consultant. Funded by the Alfred P. Sloan Foundation through the GMI Cooperative Faculty Development Program Oct 1995-Mar 1996
Chief Ergonomist. Part-time consultant position Aug 1995-Mar 1996

General Motors Corporation Jul 1993-Mar 1995
Delphi Energy & Engine Management Systems (formerly AC Delco Systems & AC Rochester) Division, Flint, Michigan. Faculty Co-op at Division I.E. Methods Laboratory. Ergonomics and safety engineering project engineer and consultant. Funded by the Alfred P. Sloan Foundation through the GMI Cooperative Faculty Development Program Oct 1994-Mar 1995, Jan 1994-Mar 1994, Jul 1993-Sep 1993

University of Michigan-Flint Jan 1991-Apr 1992
Adjunct Associate Professor, School of Management. Taught courses in statistics and operations management in MBA program

University of Michigan-Ann Arbor Sep 1981-Dec 1986
Department of Industrial and Operations Engineering, Graduate Student Teaching Assistant Jan 1983-Dec 1986
Department of Industrial and Operations Engineering, Graduate Student Research Assistant Jan 1982-Aug 1982
Office of the Plant Director, Heating and Utilities (part-time). Responsible for assisting in the planning, installation, and troubleshooting of computerized energy management systems Sep 1981-Jan 1982

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General Motors Corporation Jul 1968-Dec 1985
Warehousing and Distribution Division of GM, Flint, Michigan, (formerly GM Parts Division) Oct 1973-Aug 1981 (educational leave until 12/31/1985)
Associate Mechanical Engineer, then Mechanical Project Engineer, then Plant Engineer, Facilities and Planning Department, Divisional Office.
Investigation of engineering problems, development of solution, cost savings, and costs of implementation, preparation of specifications and drawings, bid evaluation and contract award, shop drawing approval, site inspection, invoice approval, and follow-up. Primary development of computer software package for departmental project control and reporting system. Developed computer software package for recording and analyzing basic energy usage at Division's 60 facilities nationwide. Analyzed and made recommendations regarding fire and hazard insurance inspection reports for 60 facilities

GM Assembly Division, Framingham, Massachusetts
Jul 1968-Sep 1973
Associate Project Engineer, Tool and Process Engineering Department. Responsible for coordination of tooling changes, particularly at model-change, for various automobile assembly operations. Analyzed vehicle front-wheel geometry for process adjustment Apr 1973-Sep 1973
Cooperative Engineering Student (General Motors Institute), Thesis entitled An In-Depth Study of the Framingham Plant's Heating and Ventilation Systems. Work experience as student included most staff and production management functions. In many instances, assignments included regular jobs where employees were on vacation or otherwise absent Jul 1968-Jul 1973

Martin Marietta Corporation Sep 1967-Jun 1968
Vandenberg Air Force Base, California. High School Cooperative Education Student. Computer programming

II. EDUCATION, LICENSES AND TRAINING

Education

University of Michigan, Rackham School of Graduate Studies, Ann Arbor, MI. Doctor of Philosophy in Industrial and Operations Engineering (specializing in Ergonomics/Safety); dissertation entitled "Model for the Analysis, Representation, and Synthesis of Hazard Warning Communications". 130 credits, GPA 7.92/8.0. Awarded U.S. Department of Health & Human Services, National Institute for Occupational Safety and Health Traineeship. Completed all requirements for the Occupational Health & Safety Engineering Option of the Masters of Science program as well. September 1981-December 1988.

University of Michigan, Rackham School of Graduate Studies. Master of Science in Engineering (Industrial & Operations Engineering). 30 credits, GPA 7.6/8.0. September 1978-August 1981.

General Motors Institute, Flint, MI. Bachelor of Mechanical Engineering (Mechanical-Electrical Option), thesis entitled "An In-Depth Study of the Framingham Plant's Heating and Ventilation Systems". 188 credits, GPA 90.2/100. Three years of co-op experience at General Motors Corporation, GM Assembly Division, Framingham, Massachusetts, and Assembly Research Center, Flint, Michigan. Tau Beta Pi national engineering honor society. July 1968-June 1973. [with support from the Air Force Aid Society General Henry H. Arnold Education Grant Program]

Licenses

Registration as Professional Engineer

- State of Michigan, May 12, 1978 – May 12, 2023 (#6201025251)
- State of Indiana, June 15, 2015 – July 31, 2022 (#PE11500355)
- State of Ohio, July 21, 2015 – December 31, 2019 (#PE.80335)
- State of Illinois, July 1, 2015 – November 30, 2017 (#062.067561)

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Training/Professional Development

- Guide to Detectors and Indicators. CPE Solutions, LLC. October 20, 2020
- Explosive Safety Standards. CPE Solutions, LLC. October 19, 2020
- Facilities Engineering Electrical Facilities Safety. CPE Solutions, LLC. October 19, 2020
- Clean Energy Technologies. CPE Solutions, LLC. October 19, 2020
- Evaluating Noise Hazards in the Workplace. CPE Solutions, LLC. October 16, 2020
- Indiana Ethics Course for Professional Engineers. CPE Solutions, LLC. July 28, 2020
- Indiana State Board Statute & Administrative Rules for Professional Engineers. CPE Solutions, LLC. July 28, 2020
- Ground-Fault Protection on Construction Sites. CPE Solutions, LLC. July 28, 2020
- Fire Protection and Prevention During Construction. CPE Solutions, LLC. July 28, 2020
- Ladder Safety Course. American Ladder Institute. May 8, 2019
- Ladder Safety. Vale Training. March 1, 2019
- Fire Extinguisher Training. Vale Training. March 1, 2019
- Back Injury Prevention. Vale Training. March 1, 2019
- Slip, Trip, and Fall Prevention. Vale Training. March 1, 2019
- NFPA 1033 Standard for Professional Qualifications for Fire Investigator. 8-part webinar series. Unified Investigations & Sciences, Inc. 2016-2017.
- 16-Hour Asbestos Operations & Maintenance Training. EKS Services Inc., Detroit, MI. December 2016.
- The Henry Ford Production System LEAN Training for Healthcare. Henry Ford Health System. November 2009.
- Wood Badge. Lake Huron Area Council, Boy Scouts of America. August–September 1998.
- Four Phase Process of Product Development. AC Rochester Division of General Motors Corporation. September 14–16, 1993.
- Intermediate Financial Management, EIS 0012, GM Management Development Curricula. General Motors Corporation, Flint, Michigan. April 29–May 1, 1980.
- Interpersonal Communication Skills, GM Management Development Curricula. General Motors Corporation, Flint, Michigan. 1980.
- Basic Manufacturing Management, GM Management Development Curricula. General Motors Corporation, Flint, Michigan. 1979.
- Introduction to Process Computers. The Foxboro Company, Foxboro, Massachusetts. March 7–11, 1977.
- Industrial Ventilation and Air Pollution Control. General Motors Institute Continuing Engineering Education, Flint, Michigan. October 7–11, 1974.

III. MEMBERSHIPS AND HONORS

Professional Memberships – Current

- American Society of Safety Engineers, May 1984 (Professional Member #0109801)
- Human Factors and Ergonomics Society, December 1983-2013 (Full Member)
- National Council of Examiners for Engineering and Surveying, Fundamentals of Engineering (FE) Committee, 2004-present; Coordinator, Industrial Engineering Subcommittee, 2008-2010

Professional Memberships – Past

- Michigan Industrial Hygiene Society, Michigan Section of American Industrial Hygiene Association, November 1989
- Institute of Industrial Engineers, April 1984-1988 (Senior Member #089979 6)
- Treasurer of Chapter 98 (1987-1988), Newsletter Editor of Chapter 98 (1987-1988)
- Robotics International of Society of Manufacturing Engineers, May 1984 (#2201010)

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Other Memberships—Current & Past

Pi Kappa Alpha, national social fraternity, 1969
The Nature Conservancy, 1979-present
Boy Scouts of America, 1959-1969, 1991-2010

Honors – Professional

Gamma Mu Iota (GMI Manufacturing Systems
Engineering Honor Society) (Honorary), 1991
Traineeship in Occupational Safety and Health
Engineering, University of Michigan (funded by the
National Institute for Occupational Safety and Health),
1981-1984
Tau Beta Pi, National Engineering Honor Society,
General Motors Institute Chapter, 1972
Dean's List, General Motors Institute, 1971-1972
Management Honor Society, General Motors Institute,
1970-1972

Honors – Other

Scouter's Key – Commissioner, Boy Scouts of America,
1999
Scouting Family of the Year, Boy Scouts of America,
1997
Scouter Award, Boy Scouts of America, 1996
Cubmaster Award, Boy Scouts of America, 1995
Eagle Scout, Boy Scouts of America, 1967

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IV. PUBLICATIONS

"Is Prefabrication Making You Money?" , with Perry Daneshgari, D.Eng. and Heather Moore, Ph.D., in EC&M (The Magazine of the Electrical Design, Construction & Maintenance) 113:7, July 2014. p. C24-26.

"Workstation Evaluation and Design", Chapter 10 in **Occupational Ergonomics: Theory and Applications**, 2nd Edition, A. Bhattacharya & J. McGlothlin (Eds.). New York: CRC Press – Taylor & Francis Group. March 8, 2012. 978-1-439-81934-0

"Occupational Health and Safety Management", with Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, and Bradley T. Cook, Miller Engineering. Chapter 25 in **Handbook of Human Factors and Ergonomics**, 4th Edition, G. Salvendy (Ed.). New York: John Wiley & Sons. March 2012. 978-0-470-52838-9

"Teaching Lean Work Design in a Traditional Methods Course", with Paul E. Rossler, P.E., Ph.D., Department of Industrial Engineering & Management, Oklahoma State University, invited paper submitted to The Institute of Industrial Engineers' 10th Annual Industrial Engineering Research Conference, May 20-22, 2001, Dallas, Texas.

"Warning Signs and Labels", with Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, article in **International Encyclopedia of Ergonomics and Human Factors**, W. Karwowski (Ed.). London: Taylor & Francis. 2000.

"Reliability, Maintenance, and Safety of Robots", with Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, Chapter 36 of Part 7: Applications: Design and Integration in **Handbook of Industrial Robotics**, S. Nof (Ed.). New York: John Wiley & Sons. 1999. p. 717-753.

"Design of Industrial Warnings", with Susan A.H. Benysh and Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, Chapter 40 of Part 2: Foundations of Ergonomics Knowledge in **The Occupational Ergonomics Handbook**, W. Karwowski & W. Marras (Eds.). Boca Raton, FL: CRC Press. 1999. p. 707-739.

"Industrial Ergonomics", Chapter 4 in Industrial Engineering Section of **FE/EIT Discipline Review**, 3rd Edition. Okemos, MI: Great Lakes Press. 1998. p. 371-386.

"Information Systems Design", Chapter 6 in Industrial Engineering Section of **FE/EIT Discipline Review**, 3rd Edition. Okemos, MI: Great Lakes Press. 1998. p. 393-398.

"Workstation Evaluation and Design", Chapter 12 in **Occupational Ergonomics: Theory and Applications**, A. Bhattacharya & J. McGlothlin (Eds.). New York: Marcel Dekker. 1996. p. 279-301.

"Warning Labels and Signs in the Workplace", with Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, chapter in **Workspace, Equipment, and Tool Design**, A. Mital & W. Karwowski (Eds.). Amsterdam: Elsevier. 1991. p. 303-344.

"Expanding Ethics and Safety Coverage within the Undergraduate Engineering Curriculum", with Paul D. Plotkowski, Ph.D., GMI, in **Proceedings of 1991 North Central Section ASEE Conference**. April 4-6, 1991.

"A Stochastic Process Model for Human Reliability Analysis", with Cherng Tarnng Lin, Ph.D., GMI, in **Advances in Industrial Ergonomics and Safety II** (Proceedings of the Annual International Industrial Ergonomics and Safety Conference, Montreal, June 10-13, 1990), Biman Das (Ed). London: Taylor & Francis, 1990.

"What Information Does an Operator Expect in an Automobile Display?", with Eric M. Ethington and Gary A. Streebman, Delco Electronics Corp., in **Automotive Information Systems and Electronic Displays: Recent Developments**, SP-770, Warrendale, PA: Society of Automotive Engineers, 1989, p. 51-54.

Model for the Analysis, Representation, and Synthesis of Hazard Warning Communications (Ph.D. dissertation), University of Michigan, 1988.

"Injury Control and Engineering Education", with Russell C. Jones, Ph.D., P.E., President, University of Delaware and President, Accreditation Board for Engineering and Technology, **Bulletin of the New York Academy of Medicine** 64:7(838-845), September-October 1988.

"An Isomorphism Between Fault Tree Analysis and LISP Data Structures", with Mark R. Lehto and James M. Miller, Ph.D., P.E., University of Michigan, in **Advances in Human Factors/Ergonomics, 1 Human-Computer Interaction** (Proceedings of the First USA-Japan Conference on Human-Computer Interaction, Honolulu, Hawaii, August 18-20, 1984), G. Salvendy (Ed.), Amsterdam: Elsevier, 1984, p. 297-300.

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An In-Depth Study of the Framingham Plant's Heating and Ventilation Systems, General Motors Institute, 1973

V. PROJECTS AND TECHNICAL REPORTS

History of ATV 1996 Labeling Update Project,

prepared for the ATV Joint Defense Counsel (on behalf of Honda, Kawasaki, Polaris, Suzuki, and Yamaha) and U.S. Consumer Product Safety Commission, Washington, D.C. April 1997.

ATV 1996 Labeling Update Project, prepared for the ATV Joint Defense Counsel (on behalf of Honda, Kawasaki, Polaris, Suzuki, and Yamaha) and U.S. Consumer Product Safety Commission, Washington, D.C. October 3, 1996.

Warnings for Computer Data Acquisition System Manual, for Keithley-Metrabyte. 1996.

Warnings for Commercial Pot Washing System, for Metcraft, Inc., Masco Corporation. 1996.

Warning Labels for Pick-up Truck Rack System, for Advanced Accessories, Inc. May 1996.

Ergonomics Project Reporting System, for Design Systems, Inc. March 1996.

Analysis of Designs and Principles of Movement Transition Intended for Boat Handholds and Boarding Ladders: Principles and Examples, with J.M. Miller, Ph.D., P.E., University of Michigan, and B.C. Grieser, Miller Engineering Associates. Prepared for the American Boat and Yacht Council, Edgewater, Maryland. April 8, 1996.

Bowrider Backrest Height Variables: An Experimental and Simulation Study, with J.M. Miller, Ph.D., P.E., University of Michigan, and B.C. Grieser, Miller Engineering Associates. Prepared for the American Boat and Yacht Council, Edgewater, Maryland. February 15, 1996.

Experimental Determination of Lateral Boat Accelerations During Turns at Bow Seat Versus Stern Seat Locations, with J.M. Miller, Ph.D., P.E., University of Michigan, and B.C. Grieser, Miller Engineering Associates. Prepared for the American Boat and Yacht Council Edgewater, Maryland. February 15, 1996.

Warning Label for Recreational Vehicle Holding Tank Chemical, for Hydrø Agri North America Corporation. 1995.

Warning and Instruction Label for User-assembled Chair, for Universal Furniture, Masco Corporation. 1995.

GMI Academic Building Signage Team Report. 1995

P4 Proactive Ergonomics Process, for Delphi Energy & Engine Management Systems Division of General Motors Corporation. March 1995.

"Safety and Health", Section S of **Specifications for the Design and Building of Special Machines and Industrial Equipment,** for Delphi Energy & Engine Management Systems Division of General Motors Corporation. March 1995.

Methods Summary Chart. Submitted to AC Rochester Division, General Motors Corporation. March 1994.

Exposure to Temperature – Work and Recovery Cycles. Submitted to AC Rochester Division, General Motors Corporation. February 1994.

Cart Pushing Energy Expenditure Analysis. Submitted to AC Rochester Division, General Motors Corporation. February 1994.

Force Gage Computer Interface Program. Submitted to AC Rochester Division, General Motors Corporation. January 1994.

NIOSH Lifting Guide Limits for Specific Populations and Accommodations. Submitted to AC Rochester Division, General Motors Corporation. January 1994.

Design of Force Measurement Tool. Submitted to AC Rochester Division, General Motors Corporation. October 1993.

Recommended Weight Limits – Self-stacking Totes. Submitted to AC Rochester Division, General Motors Corporation. September 1993.

Recommended Weight Limits for Loading/Unloading GM5131 Baskets. Submitted to AC Rochester Division, General Motors Corporation. August 1993.

Status of Occupational, Product, Public Safety & Health Instruction in Engineering Schools and Programs. Submitted to Accreditation Board for Engineering and Technology. April 1993.

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GMI Environmental Engineering Task Force: Progress Report. February 20, 1991.

Progress Report. Investigation of steering gear boot installation. General Motors Corporation, Saginaw Division. October 1989.

Proposed Description of the Position of GMI IE Program Director. September 1989.

Vocational Rehabilitation Project at Consolidated Packaging. Submitted to State of Michigan, Rehabilitation Services, Flint, Michigan. July 1988.

Time study of percutaneous transluminal coronary angioplasty (PTCA), with J. Mariotti. Advanced Cardiovascular Systems. 1988.

Preliminary investigation of current time standards, with R. Harmon. Johnson Controls. December 1987.

Manufacturing processes for Spacescapes. Through Michigan Department of Education, Michigan Rehabilitation Services. 1987.

Investigation of forces required to assemble wiring harnesses, with S. Richards. General Motors Corporation, Packard Electric Division. 1987.

Promoting Safe Design by Developing a More Effective, User-Friendly Hazard Analysis and Control Information Retrieval Technique, (unpublished Ph.D. dissertation preliminary proposal), 1983

Final Report: A Conceptualization of A GENERIC SAFETY STANDARD SYSTEM FOR ROBOTIC AND OTHER TYPES OF AUTOMATED MANUFACTURING MACHINERY, with James M. Miller, Ph.D., P.E., University of Michigan Center for Robotics and Integrated Manufacturing (unpublished report), December 1982

VI. PROPOSALS

Dynamic Ergonomic Analysis Tool - Phase II Development. With Paul E. Rossler. Submitted to Design Systems, Inc. August 6, 1999.

Passive Unique Identification of Human Forms from Two-Dimensional Video Data, #9960370. Submitted by Cimulus, Inc., Ann Arbor, MI, to the National Science Foundation, SBIR NSF 99-57, June 1999. Included as consultant. \$98,266.

Advanced Job Analysis Training. With Susan E. Richards and Paul E. Rossler. Submitted to UAW and General Motors Corporation. September 15, 1997.

Virtual Manufacturing and Productivity Laboratory. With Winston F. Erevelles, David W. Pooch, and William L. White. Submitted to National Science Foundation, Instrumentation and Laboratory Improvement Program. November 1996.

Supplier Development Engineer Education and Training (Ergonomics, Safety, and Methods). With David W. Pooch and Roderick Johnson. Submitted the North American Operations of General Motors Corporation. January 1996.

Manufacturing Development Center. Submitted to Delphi Energy and Engine Management Division of General Motors Corporation. January 1996.

Development of a Design-In Health, Safety & Environmental Training Program for Manufacturing Engineers. Submitted to NAO Industrial Engineering, General Motors Corporation. February 1994.

Development of a Design-In Safety Training Program for Manufacturing Engineers. Submitted to GM Occupational Safety and Health and AC Rochester Division, General Motors Corporation, and Delco Electronics Corporation. November 1992.

Management Business Center. With Charles W. White and Elizabeth M. Lynn. Submitted to GMI. September 1992.

Regional Laboratory for Environment, Resources, and Re-Industrialization. With many others, a joint proposal from GMI and the University of Michigan-Flint. February 1992.

Biometric Syntax and Stress Detection. Submitted by The Technology Partnership to the U.S. Department of Defense Small Business Innovation Research Program, SDIO 92-010, January 1992. Included as consultant. \$50,000.

Lightweight, Compact Optics for Head-mounted Displays. Submitted by The Technology Partnership to the U.S. Department of Defense Small Business Innovation Research Program, DARPA 92-057, January 1992. Included as consultant. \$50,000.

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An Ergonomic Study for the Mass Transportation Authority, Flint, Michigan, RFP #90-34. With Susan E. Richards. April 1990.

"Workplace Design Field Evaluation Equipment", part of **SME Manufacturing Engineering Education Foundation Grant Proposal for 1990 Annual Meeting** submitted by GMI Engineering & Management Institute to Society of Manufacturing Engineers, January 29, 1990. \$9,000.

"Human Factors Laboratory Equipment", part of **SME Manufacturing Engineering Education Foundation Grant Proposal for 1988 Annual Meeting** submitted by GMI Engineering & Management Institute to Society of Manufacturing Engineers, January 29, 1988.

Enhancement of Capability for Field Ergonomic Evaluation of Workplace Design. National Science Foundation, Instrumentation and Laboratory Improvement Program, Closing date November 13, 1989. \$12,340.

Ergonomic Research Experience for Undergraduate Cooperative Education Engineering Students, National Science Foundation, Research Experiences for Undergraduates Program, Closing date October 10, 1989. \$27,550.

National Science Foundation, Presidential Young Investigator Award Program, Closing date October 2, 1989

Time study of percutaneous transluminal coronary angioplasty (PTCA). With J. Mariotti. Advanced Cardiovascular Systems, 1988. \$16,000.

"Ergonomics Laboratory Proposal", part of **GMI Challenge Fund Campaign**. April 1987.

Hazard Analysis System for Robots, with James M. Miller and through the Department of Industrial and Operations Engineering, University of Michigan, submitted to U.S. Army Research Office, April 1984

The Development of a Computerized 'Expert' Safety Hazard Analysis System for Robots and other Automated Manufacturing Machinery, with James M. Miller and through the Department of Industrial and Operations Engineering, University of Michigan, submitted to General Motors Corporation, March 1984

Hazard Analysis System for Automated Manufacturing Processes, with James M. Miller and through the Department of Industrial and Operations Engineering, University of Michigan, submitted to National Institute for Occupational Safety & Health, Center for Disease Control, Public Health Service, U.S. Department of Health & Human Services, February 1984

Computer-Aided Design for Human Safety in Automated Manufacturing Systems, joint proposal with J.M. Miller Engineering, Inc. and the Department of Industrial and Operations Engineering, University of Michigan, submitted to the Michigan Department of Commerce, State Research Fund, May 1983. Revised and resubmitted January 1984

Development of alternative machine guarding system requirements and methods for 20 jobs identified as having high caught-in and struck-by injuries, with James M. Miller and through the Center for Ergonomics, Department of Industrial and Operations Engineering, University of Michigan, submitted to Ford Motor Company, Body and Assembly Division, April 1983

A Generic Safety Standard System for Robots, with James M. Miller and through the Center for Ergonomics, Department of Industrial and Operations Engineering, University of Michigan, submitted to National Institute for Occupational Safety & Health, Center for Disease Control, Public Health Service, U.S. Department of Health and Human Services, December 1982

Phase II of Generic Safety Standard System for Robotic Applications, with James M. Miller, Department of Industrial and Operations Engineering, University of Michigan, submitted to University of Michigan Center for Robotics and Integrated Manufacturing, October 1982

VII. PROGRAMS/SPECIAL COURSES

26 programs/special courses in Safety, Human Factors, Ergonomics, and other topics at GMI Engineering & Management Institute/Kettering University

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VIII. PRESENTATIONS

A Roadmap for Continuous Improvement and Sustainability on Program Outcomes Assessment, with Tony Lin, Mark Palmer, Lucy King. ABET Symposium, Las Vegas, Nevada. April 15-17, 2010.

Interpretation of One-sided Ergonomics Standards and Misuse of Ergonomics Checklists, General Motors Corporation, North American Operations, GM Ergonomics Technical Committee Quarterly Meeting, Flint, Michigan. May 4, 1994.

Interpretation of One-sided Ergonomics Standards and Misuse of Ergonomics Checklists, General Motors Corporation, North American Operations, GM Ergonomics Technical Committee Quarterly Meeting, Flint, Michigan. May 4, 1994.

Learning Curves, General Motors Corporation, AC Delco Systems Division, Divisional Industrial Engineering Methods Laboratory, Flint, Michigan. February 1994.

Interpretation of One-sided Ergonomics Standards and Misuse of Ergonomics Checklists, General Motors Corporation, AC Delco Systems Division, Divisional Industrial Engineering Technical Advisory Committee, Flint, Michigan. February 1994.

New Directions in Ergonomics Research, presented at 16th Annual Occupational Health Conference, sponsored by the Michigan Industrial Hygiene Society, Troy Michigan, October 3, 1989.

Expert Systems/AI Applications in Ergonomics and Industrial Safety, with Mark R. Lehto, Ph.D., Department of Industrial Engineering, Purdue University, workshop conducted at Annual International Industrial Ergonomics and Safety Conference '89 sponsored by International Foundation for Industrial Ergonomics and Safety Research, Cincinnati, Ohio, June 5, 1989.

The Job Show television program, 2 30-minute programs on Ergonomics, produced by the Public Information Services Division of the Michigan Department of Labor's Michigan Employment Security Commission (MESC), interviewed by Don McGhee, MESC, and with Richard G. Maybee, Ph.D., and Andrew J. Marcotte, The Joyce Institute, taped March 28, 1989, aired on Michigan cable television systems in July-August 1989.

What Information Does an Operator Expect in an Automotive Display, with Eric M. Ethington and Gary A. Streelman, Delco Electronics Corp., presented at 1989 SAE International Congress & Exposition, Detroit, Michigan, February 28, 1989.

Injury Control and Engineering Education, with Russell C. Jones, Ph.D., P.E., President, University of Delaware and President-Elect, Accreditation Board for Engineering and Technology, presented at Symposium on Motor Vehicle Injuries, The New York Academy of Medicine, New York, New York, December 7-8, 1987.

An Introduction to Warning, seminars presented to Department of Industrial Engineering, Lehigh University, March 7, 1986, and Department of Industrial & Systems Engineering, GMI Engineering & Management Institute, March 11, 1986.

Existing Safety Standards Having Applicability to Robots and the Formulation of Specific Robotic Safety Standards, with James M. Miller, Department of Industrial and Operations Engineering, University of Michigan, presented at the 1984 SAE Passenger Car Meeting, Dearborn, Michigan, October 3, 1984.

IX. GRANTS/CONTRACTS

Dynamic Ergonomic Analysis Tool – Academic Validation. United States Postal Service, May 2001. \$11,612.

Development of Asynchronous Internet-based Graduate Safety Course, part of proposal submitted by Kettering University to the Alfred P. Sloan Foundation, December 1999. \$7,500.

Masters of Science in Manufacturing Operations. Approved by General Motors Corporation, July 26, 1999. Course Development (Work Analysis and Design in Automotive Manufacturing) \$15,000.

"Workstation Prototyping Equipment", part of **SME Manufacturing Engineering Education Foundation Grant Proposal for 1999 Annual Meeting** submitted by GMI Engineering & Management Institute to Society of Manufacturing Engineers, January 1999. \$5,000.

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Designs Systems, Inc., donation to GMI Cooperative Faculty Development Program, April 1996. \$3,992.

GMI Cooperative Faculty Development Program, funded by the Alfred P. Sloan Foundation, July 1993–June 1996.

"Manufacturing Workplace Ergonomic Field Evaluation Equipment", part of **SME Manufacturing Engineering Education Foundation Grant Proposal for 1992 Annual Meeting** submitted by GMI Engineering & Management Institute to Society of Manufacturing Engineers, January 1992. \$3,500.

Lance M. Stefanyk Endowed Teaching Fund (GMI), 1989-90. \$600.

"Enhancements to Human Factors Laboratory". Instrumentation and Laboratory Improvement Program, National Science Foundation, 1989-92. \$5,194.

"Human Factors Laboratory Instrumentation". Instrumentation and Laboratory Improvement Program, National Science Foundation, 1988-91. \$13,037.

"Robotic Safety", University of Michigan, Center for Robotics and Integrated Manufacturing (CRIM), Jan 1982-Aug 1982.

National Institute for Occupational Safety and Health Traineeship, through the University of Michigan, NIOSH Educational Resource Center (Occupational Health and Safety Engineering), 1981-1984.

X. TEACHING

26 years of courses at Kettering University/GMI, the University of Michigan, and the University of Michigan-Flint, covering topics of industrial engineering, work methods & standards, safety, human factors, ergonomics, probability & statistics, design of experiments, information systems & management, database design, software engineering, manufacturing processes

XI. THESIS SUPERVISION

1981-2010 More than 97 supervisions of 12-month industry-based theses required for graduation at GMI Engineering & Management Institute/Kettering University

XII. SERVICE ACTIVITIES

1986-2010 Over 100 university and department standing and ad hoc committees and task forces at GMI Engineering & Management Institute/Kettering University

XIII. OTHER PROFESSIONAL ACTIVITIES

Depositions and Court Testimony

[Performance Fiberglass] (Michigan). Deposition Testimony as Fact Witness (Door handle installation; fall/personal injury). Client: Adam Post II on behalf of Auto-Owners Insurance. March 3, 2021.

[Kalski] v Ashley Capital et al. (Michigan). Deposition Testimony as Expert Witness (Electrocution in substation; warnings). Client: Linda J. Roelans. October 8, 2020.

[Boswell] v McNeilus (Oklahoma). Deposition Testimony as Expert Witness (Fall from cement truck; rollover). Client: Matthew Wade. January 29, 2020.

Smith v [General Motors] (Ohio). Deposition Testimony as Expert Witness (Intentional tort, machine guarding, scalping). Client: James Ferber. July 29, 2003.

[Wilson] v Linemaster et al. (Pennsylvania). Deposition Testimony as Expert Witness (Power press light screen, loss of fingers). Client: Charles S. Cooper. July 11, 2003.

[Moyer et al.] v Fenn (Pennsylvania). Trial Testimony as Expert Witness (HAVS from swaging). Client: Rosemary Pinto. August 9, 2001.

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[Haist Flowers & Mutual Insurance Corporation] v Florists' Transworld Delivery et al. (Michigan). Deposition Testimony as Expert Witness (Extension cord, fire, property loss). Clients: Gregory Meter and Mark Dailey. May 15, 2001.

[Boullion] v TPI Petroleum (Michigan). Deposition Testimony as Expert Witness (Working at elevation, fall). Client: Donald Sowle. February 19, 2001.

Kline v [Prescribed Oxygen Specialists] et al. (Michigan). Deposition Testimony as Expert Witness (Portable oxygen system, connection failure, fire). Client: David Stewart. March 24, 2000.

[Moyer et al.] v Fenn (Pennsylvania). Deposition Testimony as Expert Witness (HAVS from swaging). Client: Rosemary Pinto. May 25, 1999.

Kemp v [Highgate Electric] (Michigan). Deposition Testimony as Expert Witness (Pallet stacker/conveyor). Client: Wayne Ogne. August 26, 1998.

[Waterworks Auto Wash] v Carwash Services (Michigan). Deposition Testimony as Expert Witness (Automatic car wash, control system failure). Client: Patrick Ball. June 19, 1998.

[Potter et al.] v Chicago Pneumatic et al. (Connecticut). Deposition Testimony as Expert Witness (Pneumatic grinders, excessive vibration exposure, vibration white finger). Client: David Neusner. June 17, 1998.

[Russell] v Hobart (Ohio). Deposition Testimony as Expert Witness (Commercial meat grinder, interlock failure, finger/hand injury). Client: Jeffrey Bakst. February 12, 1998.

[Pater] v Werner and Crawford Products (Michigan). Deposition Testimony as Expert Witness (Ladder end bumpers, fall, hand/hip injury). Client: Douglas Webster. August 28, 1997, and April 4, 1997.

[Loveless] v Heller-Sutherland (Kentucky). Trial Testimony as Expert Engineering Witness (Mechanical power press, inadvertent activation, partial hand amputation). Clients: Paul Talifero, Lucinda Shirooni. November 19, 1996.

[Arnold] v Clark Equipment Company et al. (Michigan). Deposition Testimony as Expert Engineering Witness (Forklift truck, propane leak, hand injury). Client: John Parnell. October 30, 1996.

Wessel v [Kansa Corporation] (Michigan). Deposition Testimony as Expert Engineering Witness (Newspaper inserter machine, hand injury). Client: Thomas Herman. October 10, 1996.

[Maymon] v Finlay Hydrascreen (Rhode Island). Deposition Testimony as Expert Engineering Witness (Gravel screening machine, loss of arm). Client: Paul V. Curcio. September 19, 1996.

Miles v [MacDonald's Industrial Products] (Michigan). Trial Testimony as Expert Engineering Witness (Mechanical press, hand injury, intentional tort). Client: Robert J. Johnson. September 9, 1996.

Miles v [MacDonald's Industrial Products] (Michigan). Deposition Testimony as Expert Engineering Witness (Mechanical press, hand injury, intentional tort). Client: Robert J. Johnson. August 8, 1996.

Harris v [Tiara Motor Coach] (Michigan). Deposition Testimony as Expert Engineering Witness (Conversion van, head injury). Clients: Jerry Padilla, Tim Dinan. May 20, 1996.

[Neidhart] v Ritter (Michigan). Deposition Testimony as Expert Engineering Witness (Exercise bicycle/ergometer, fall). Clients: Gary Ference, Stanley Ference. 1996.

[Loveless] v Heller-Sutherland (Kentucky). Deposition Testimony as Expert Engineering Witness (Mechanical power press, inadvertent activation, partial hand amputation). Clients: Paul Talifero, Lucinda Shirooni. 1995.

[Hoggle] v Tippins (Alabama). Deposition Testimony as Expert Engineering Witness (Steel rolling mill, servicing equipment while powered, inadvertent activation, fall). Client: Roger Lucas. 1995.

Granny's Deli et al. v [Magnetek et al.] (Illinois). Deposition Testimony as Expert Engineering Witness (High voltage neon sign transformer, fire). Client: Donald Ivanssek. 1995.

Crowder v [C-E Minerals, et al.] (Michigan). Deposition Testimony as Expert Engineering Witness (Silica dust exposure, occupational illness). Clients: James Hayes, David McNeill. 1995.

[Linville] v In-Sink-Erator (United States District Court, Kansas, #93-1359-MLD). Deposition and Trial Testimony as Expert Engineering Witness (Garbage disposal, steam explosion, failure to warn, facial burns). Client: Richard Marquez. 1994.

Snyder v [EBCO] (Indiana, #20D02-9208-CT-575). Deposition Testimony as Expert Engineering Witness (Bottled water cooler, finger injury). Client: William Lavery. 1993.

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Curricula Vitae

Baker v [Komax] (Michigan, #9100168 NP). Deposition Testimony as Expert Engineering Witness (Wire stripping/terminating machine, unguarded opening, hand injury). Client: Edward Keelean. 1991.

[Flowers] v Crown Controls (United States District Court, N. Oklahoma, #91-C-0019-8). Deposition and Trial Testimony as Expert Engineering Witness (Forklift truck, brake/control system failure/defect, death). Client: Michael Rooney. 1991.

[Grapp] v Komatsu (Michigan, #92-007963-NP). Deposition Testimony as Expert Engineering Witness (Forklift truck, brake/control system failure/defect, back injury). Client: Brian Jennings. 1991.

[Susset] v Otis Elevator (Rhode Island, #KC/82-267). Trial Testimony as Expert Engineering Witness (Elevator, control system inadvertent activation, fall down shaft). Client: Daniel Prentiss. 1988.

[Cagle] v Crown Controls (Florida, County of Orange, #CI 88-4096). Deposition and Trial Testimony as Expert Engineering Witness (Forklift truck, brake/control system failure/defect, foot injury). Clients: Clay Parker, Alan Landerman, Donald P. Hockman. 1987.

[Rupe] v Strato-Tower (United States District Court, Kansas, #86-2488-0). Deposition and Trial Testimony as Expert Engineering Witness (Aerial man-lift unit, overturn). Client: Ruth M. Benien. 1987.

Mount v Union Boiler (Ohio). Deposition Testimony as Expert Engineering Witness (Construction site/temporary guardrails, death due to fall). 1986.

[Quaglia] v Crown Controls (Rhode Island). Trial Testimony as Expert Engineering Witness (Forklift truck, brake/control system failure, leg amputation). Client: Daniel Prentiss. 1985.

[Frye] v Green Giant et al.(Berrien County, Michigan, #83-1536-NP-H). Deposition Testimony as Expert Engineering Witness (Food processing auger, severe hand and arm injury during servicing). Client: William J. Ryan. 1984.

Forensic Engineering Investigations for EFI Global of Michigan LLC/Unified Investigations and Sciences/Unified Consulting, LLC on behalf of Insurance Companies

280 assignments through March 2021

Insurance Companies

Acuity Mutual
Affinity Mutual
AIG
Allstate Insurance
American Strategic Insurance
(ASI)
Ameriprise Auto & Home
Insurance
Arch Specialty Insurance
Atain Specialty Insurance
Auto Club Insurance Association
(AAA)
Auto-Owners Insurance
Bitco
Brotherhood Mutual Insurance
Company
Chubb Insurance
Church Mutual
Cincinnati Insurance

Citizens
CNA
Crum & Forster
Encompass Insurance
Erie Insurance Group
Farm Bureau Insurance
FCCI Commercial Insurance
Guard (Berkshire Hanover)
Guide One
Hanover Insurance Company
Harleysville Mutual
Hartford Insurance, The
Hastings Mutual
Liberty Mutual Insurance
Main Street American Group
Meemic Insurance
Michigan Insurance Company
Michigan Municipal Risk
Management Authority

Nationwide E&S/Specialty
Nautilus Insurance
Old Republic Insurance Company
One Beacon Insurance
PICC
Samsung Fire & Marine Mgt Corp
Scottsdale Insurance Company
Secura Insurance
Selective Insurance
Sentry Insurance
State Farm Insurance
Travelers Insurance
USAA Insurance
VanLiner Insurance
Western Heritage Insurance
York Risk Services Group
Zurich NA

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Consulting Work-Occupational and Consumer Product Safety & Health (not including assignments at Unified Investigations and Sciences)

Alabama

[Hogle] v Tippin. (1995 M101)

Arkansas

Metcraft, Inc. Warnings design for owner's manuals (1996 M93)

California

[Ballard] v Crown Controls. Forklift truck, brake/control system failure/defect, hip injury (consultation; disposition unknown) (E61) (CA SC C 14277)
Freeman v [Whirlpool]. Gas-fired dryer (1996 M102)
Newhouse v [Paccar]. Truck wheel (1996 M74)
Severson v Allied. (1995 M45)
Storer v County of Kern (1988 M67)

Colorado

[Bennett] et al. v Southeast Colorado Power Association et al. Forage harvester, utility pole guy wire entanglement, neck fracture (2018 E141) (CO Crowley Cty. 2018CV30000)
[Blakesley] v BT CONSTRUCTION, INC. et al. Transit rail construction site, excavator, leg injury. (2018 E139) (CO Denver Cty. 2014CV031144)
Granite State Insurance v [Masterchem Industries]. Paint warnings (1996 M89)

Connecticut

[class] v Chicago Pneumatic et al. Pneumatic grinders, vibration white finger (1996 E98)

District of Columbia

ATV (All-Terrain Vehicle) Joint Defense Council, and U.S. Consumer Product Safety Commission. (1996 M109)

Florida

[Cagle] v Crown Controls. Forklift truck, brake/control system failure/defect, foot injury (deposition and trial testimony) (E58) (FL Orange Cty. CI 88-4096)
Hydro Agri North America. (1995 M52)
[Kirkirt] v Sonny's Enterprises, Inc. Carwash, leg amputation. (2008 E134)
Recreational boat, collision with channel marker, quadriplegia (<86 M)

Hawaii

Shibuya v Architects Hawaii et al. Forklift truck, lateral rollover into trench, paraplegia (1985 M49)

Illinois

Baudam, Inc. v [Spring AG]. Rechaud fire, burn injury (1997 E103)

Granny's Deli v [Magnetek] et al. Neon sign transformer, fire (1995 M36)

Neugebauer v [Heidelberg] et al. Bookbinder/trimmer, loss of fingers (1996 M117)

Indiana

American Family Insurance [Target Corporation]. Portable fire bowl, failure to warn, house fire (2008 E133)
Baker v [Schering-Plough Healthcare Products Inc.]. Pumpkin carving tool, finger laceration (1997 E104)
Ferguson v Poseidon Pools. (1995 M68)
Jenkins v Mega Manufacturing. (1989 E64) (US S.IN 84-90-C)
Mullins v [Deerfield Manufacturing]. Can crusher, inadvertent activation, multiple fingertip amputation (1985 M50)
Porter v [Deerfield Manufacturing]. Can crusher, inadvertent activation, multiple fingertip amputation (1985 M35)
Snyder v [Ebco Mfg. Water]. Bottled water cooler, finger injury (deposition testimony) (1993 E88) (IN 20D02-9208-CT-575)

Kansas

Linville v In-Sink-Erator. Garbage disposal, steam explosion, failure to warn, facial burns (deposition and trial testimony) (1994 E90) (US KS 93-1359-MLD)
Richter v Limax. Exercise/jogging trampoline, foot injury (settled prior to testimony) (1992 E77) (US KS91-2065-V)
Rupe v Strato-Tower et al. Aerial man-lift unit, overturn (deposition and trial testimony) (E56) (US KS 86-2488-0)

Kentucky

[Hubbs] v Todco. Converter dolly (1996 M87)
[Loveless] v Heller-Sutherland. (1995 M119)
[Russell] v Hobart. Meat grinder, failure to interlock, hand injury (1996 E100)

Maryland

American Boat & Yacht Council. (1995 M88)

Massachusetts

Keithley Metrabyte. Warnings design, software & manual. (1996 M111)
Laraba v New England Power. (1996 M80)

Michigan

Abbotts v Sears/Heil-Quaker. Home natural gas furnace, carbon monoxide poisoning, brain damage (1983 M92)

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- Advanced Accessory Systems. Pickup truck bicycle rack system warning labels (1996 M62)
- Aho v Crisco Oil. (1995 M41)
- Aloul v Central Station Ltd. Door with automatic closer, finger crush injury (settled prior to testimony) (1989 E67) (MI 87-4194-NO)
- Anderson v Conagra. (1995 M87)
- Arledge v Kenwal. Loading dock, caught under shifting load, foot injuries (settled prior to testimony) (1993 E86) (MI 92-218631 NO)
- [Arnold] v Clark Equipment. Forktruck, propane leak, hand injury. (1966 M94)
- Baker v Komax. Wire stripping/terminating machine, unguarded opening, hand injury (deposition testimony) (1991 E76) (MI 9100168 NP)
- Balzer v [Gainey Transport et al.] Car-truck accident (1996 M104)
- [Barton] v Star-Kist (1997 E110)
- Belawi v Ausi's Custom Cabinets [et al.] Plexiglas security window (1996 M85)
- Bolton v [Hoar Construction]. (1996 M39a)
- Bourgeois v City of Kentwood et al. Bicycle, collision with second bicycle, severe facial injuries (settled prior to testimony) (E54) (MI 86-52371-NI)
- Brown v Davis Keyseater. Keyseater, failure to lockout & inadvertent activation, hand amputation (settled prior to testimony) (1987 E52) (MI 85-531-738-NP)
- [Boullion] v TPI (2000 E121)
- Cardona v [Schirp]. Fleecing machine, hand injury (1997 E108)
- Carter v Leading Tool & Die. (1991 E73) (MI 91-496 NP)
- Coats v Shepard Niles et al. (1985 M55) (MI Calhoun Cty.84-004-NP)
- Crowder v [C-E Minerals Inc. et al.] Silica dust exposure, occupational illness (deposition testimony) (1995 E93)
- Curtis v [Woodcreek Village Estates]. Front-end loader, pedestrian impact (inspection) (2020 M72) (19-3430-NO)
- [Dean] v GTE. Telephone, hearing damage (1996 M96)
- Deluca v [Clark] & Bunn-Omatic. Coffee scald (1996 M90)
- Dyer v [Procoil] Cutoff saw (1996 M120)
- Eberhardt v [Fisher & Co., Inc.]. Staking machine, hand injury (1997 E109)
- Hawkins v [Giddings & Lewis]. Drill press, glove caught in bit, severe hand injury (1985 M61)
- Forklift truck, fall from elevated basket, head and extremity injuries (<86 M)
- [Frye] v Green Giant et al. Food processing auger, severe hand and arm injury during servicing (deposition testimony) (1984 M52) (MI Berrien Cty. 83-1536-NP-H)
- [Gelman] v Nine Lives. Catfood can, finger injury (1996 M46)
- General Motors SPO Rack Study. (1995 M82)
- Genesee Tool & Eng'g. (1992 E84)
- Gibson v L.S.E. Machine. (E62) (US E.MI 87-CV-30055-PH)
- Gould v Woolworth. Exercise cycle, mechanical fastener failure, failure to warn, rectal/abdominal injuries (settled prior to testimony) (1989 E65)
- Grapp v Komatsu. Forklift truck, brake/control system failure/defect, back injury (deposition testimony) (1991 E71) (MI 92-007963-NP)
- Grey v GM. Air conditioning unit, electrocution during servicing (settled prior to testimony) (1992 E80) (MI 91-127171NP)
- Hall v K-Mart. Anti-theft device, hearing damage due to noise level (engineering report only) (1995 E92) (MI 94-70154-NO)
- [Haist] v FTD (2000 E122)
- Harris v Tiara. (1995 M94)
- Howard, James [snowmobile]. (1989 E66)
- Howell v S.M.M.Leon's. Restaurant seating, fall, hip injury (settled prior to testimony) (1992 E81) (MI 92-433248-NO) (1994 E81)
- Hrabal v [O'Doyle] (1998 E111)
- Hunter v Honeywell. Metal tube bundler, inadvertent activation, head injury-death (settled prior to testimony) (1992 E83) (MI C 91001658 NP)
- Jackson v Altman Management. (1996 E101)
- Jackson v Wendy's. Restaurant tile floor, fall, head injury (settled prior to testimony) (E91)
- [Kalski] v Ashley Capital et al. Electrocution in substation; warnings (deposition testimony). (2019 M22) (MI Wayne Cty. 18-010542-NO)
- Kemp v [Highgate Electric]. Pallet stacker/conveyor (1996 M107)
- Kerekes v Urban. (1995 M32)
- Kline v [Prescribed Oxygen] (1997 E115)
- Koern v Pentek. (1995 M89)
- Koziatek v BASF. Maintenance technician, wrongful non-hiring due to physical limitations (settled prior to testimony) (1990 E69)
- Latourette v [Egger]. Fall from roof (1996 M92)
- Launstein v Michigan DOT (1985 M31)
- LeVans v Heinz. (1995 M71)
- Makita Tool Research. (1995 M31)
- Manda/Hanna v City of Traverse City (1985 M36)
- Mancina v [Rogers Athletic Co.]. Football blocking sled, amputated finger (1996 E102)
- Martin v New Products Corporation. Reaming operation, hand-held part, hand injury (settled prior to testimony) (1991 E75) (MI 90-68102-NO)
- Masco - Universal Furniture. (1995 M62)
- Miles v [MacDonald's Ind. Products]. Mechanical power press, hand injury (deposition and trial testimony) (1995 M58)
- [Miree] v Kessel Food Market. Trip/fall (1996 M110)
- Nagy v Wholesale Supply. (1995 M37)
- Neidhart v Ritter. (1995 M108)

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- Norgan v Thermopress. Thermal press, accidental trip, hand injury (not filed) (1984 M61)
- Nutrien Ag. Truck/SUV collision, multiple fatalities (consulting) (2019 M33)
- Paye v Michigan Chrome & Chemical. (E63) (MI 86-620376-NP)
- [Payter] v Werner and Crawford Products. Ladder tip cover, fall (deposition testimony) (1996 E99)
- Peltier v Boone's Welding. (1995 M51)
- Petrochemical Trucking. (1995 M61)
- Pine Knob Music Theater. Ingress/egress analysis (1996 M40)
- Pogor v [Makita]. (1995 M34)
- [Princinsky] v Red Roof Inns. Bathtub, fall upon egress, knee injury (report) (1993 E89)
- [Rabish] v Fabiano et al. Fall from ladder. (1996 M132)
- [Rapanos] v General Electric. Heat pump (1996 M83)
- [Renneberg] v McKenna. Tank explosion (1996 M124)
- [Renneberg] v McKenna (1999 E119)
- Rey v Carroll. (1995 M35)
- Rosenzweigh (victim McLaughlin). Home furnace, run-away operation, death. (2012 E135)
- Russell v Creative Machine. (1990 E70) (MI 89-921953-NO)
- Saint-Gobain Performance Plastics (2003 E128)
- [San Filippo] v Carl Goldberg. (1995 M43)
- Savage. Treadmill (1995 M39)
- Scott v [Hoar Construction]. (1996 M39b)
- [Sellers] v Ski-Doo. Snowmobile, leg injury (1995 M66)
- Shank v [Fuller Company]. Dust collection system, failure to lockout & inadvertent activation, loss of fingers during servicing (1983 M56)
- [Stiffler] v Synthes. (1996 M101)
- [Steelcase] v Art Specialty Corporation. Lighting (1996 M111)
- Streu [grip tow device]. Industrial truck, towing/tugger vehicle, operator compartment design, foot injury (consultation only) (1995 E96)
- Taylor v ? [apartment fire]. (1996 M34)
- Trostel v Quality Tanning. (1995 M44)
- Uppleger v Nestlé. (1995 M55)
- [Vallie] v Faygo. 1996 (M86)
- [Velasquez] v Orbit Valve Co. (1996 M122)
- Wall v [Lime-O-Sol]. (1995 M83)
- [Waterworks] v Car Wash Services (1998 E112)
- Watson v Michigan LTI. (1995 M39)
- Wessel v [Kansa Corporation]. Newspaper insert stuffer (1996 M118)
- Wiest v [GM]. Automatic guided vehicle, inadvertent activation, arm injury (settled prior to testimony) (1992 E79)
- [Williams v Double Eagle Steel]. Sheetmetal coating operation, fall into pit, back injury (disposition unknown) (1991 E72) (MI 90-030073-NO)
- Wojciechowski v [Champion Boats Inc.] Boat, passenger thrown overboard, amputated leg (settled prior to testimony) (1993 E87) (MI 92-227435NP)
- Wonders v [Lime-O-Sol]. (1995 E94)
- Zanders v [Kansmacker]. Returnable aluminum beverage can crusher, failure to guard and warn, finger injury (settled prior to testimony) (1990 E68) (MI 89 64012)
- [Zoufal] v Detroit Edison. (1995 M98)

Montana

- Havens v [State of Montana]. (1995 M59)
- Scott v [State of Montana] (1988 M93)

New Jersey

- Gould v Denbow. (1995 M55)
- [Guarda] v Raymond Fork Truck. Forklift truck, brake/control system failure/defect, foot injury (disposition unknown) (E55) (NJ L-064457-87)
- [Kane] v BOC Group. Food auger (1995 M81)
- Sigurdsson v [Amana]. Gas stove, fire, death (1996 M43)

New York

- Martell v Kawasaki Motors. Recreational water craft, collision with boat, arm amputation (1983 M25)
- [Pantano] v Clark. (1995 M55)
- [Velez] v NACCO (2000 E120)

Ohio

- [Blatt] v Grooms. Portable grill, failure to warn, apartment building fire (1997 E106)
- Boren v [Sears] (2003 E129)
- Brooks v [General Motors] (2002 E126)
- Erickson v Roper Industries. (1995 M78)
- [Johnson] v CGE (1999 E117)
- Kaercher v [GM]. Struck by flying object. (1996 M80)
- Leathers v Triad Controls. Light screen on press, inadvertent activation, hand injury (settled prior to testimony) (1992 E82) (OH Fulton Cty.91-CV-000036)
- Macias v [Tia Rosa Bakery] (2001 E123)
- Matteucci v Chemsol Products Corp. Flammable cleaning fluid, flash fire, burns (disposition unknown) (1993 E85) (OH 219966)
- Mount v Union Boiler. Construction site/temporary guardrails, death due to fall (deposition testimony) (1986 M73)
- Sharp v Wauseon Machine and [Fayette Tubular Products]. Tube endforming machine, hand injury (1997 E107)
- Smith v [General Motors] (2002 E127)
- Smith v Monsanto. Extrusion press, explosion during servicing, fatality (withdrawn prior to testimony) (1992 E78) (OH Hamilton Cty.A8910190)
- Storaaski v Baroni. (1995 M169)
- [Truesdale] v Trueline (1999 E118)

Oklahoma

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[Boswell] v McNeilus. Fall from cement truck; rollover (deposition testimony) (2019 M26) (US W.OK 18-CV-00785-J)

Flowers v Crown Controls. Forklift truck, brake/control system failure/defect, death (deposition and trial testimony) (1991 E74) (US N.OK91-C-0019-8)

Pennsylvania

Hartley v Crown Controls et al. Forklift truck, brake/control system failure/defect, leg injury (disposition unknown) (E57) (PA Bucks Cty. 86004099-17-2)

[Hipple] v Russell (2001 E125)

Makusi v Quimby Material Handling. (1996 M114)

[Mitchell] v Hyster. Forktruck (1996 M82, 1998 E116)

[Moyer] v Fenn (1998 E113)

Nelons v [Hunt Manufacturing]. X-Acto knife, hand injury (1995 E105)

[Pasquale] v Hyster. Forktruck (1995 M116)

Stewart v [Universal Manufacturing]. Rolling scaffold (1996 M55)

[Wagner] v Taylor. Forktruck (1995 M38)

Watson v [Fulton]. Trailer hitch (1995 M96)

Wells v Alcoa. Aluminum plant conveyor, inadvertent activation, death due to crushing (1985 M66)

Westinghouse asbestos warnings. (1995 M65)

[Wilson] v Linemaster (2001 E124)

Rhode Island

Coman v Morris Metal Co. et al. Scrap metal trailer, unsecured load, fall from top of load, severe foot injury (consultation; disposition unknown) (1987 E53) (RI PC 84-2692)

Erickson v Salmansons et al. Loading dock, caught between truck load and dock, hip & internal injuries (settled prior to testimony) (E51) (US RI 80-0157)

[Maymon] v Finlay Hydrascreeens. Gravel conveyor, arm injury (1996 M57ba)

[Quaglia] v Crown Controls. Forklift truck, brake/control system failure/defect, leg amputation (trial testimony) (1985 M42)

[Seebeck] v Finlay Hydrascreeens. Gravel conveyor, arm injury (1996 M57b)

[Susset] v Otis Elevator Company. Elevator, control system inadvertent operation, fall down shaft (trial testimony) (1988 E59) (RI KC/82-267)

Tennessee

boat fire. (1995 M92)

Texas

Oil well servicing rig, inadvertent activation, severe head injury (T)

Utah

Palletizing machine, severe muscle and nerve damage during servicing (<86 M)

Wisconsin

Gleason/Brettingen v Chicago NWRR. Recreational boat, collision with bridge, multiple deaths (1985 M63)
Maryland Casualty v Carley-Troyk. (1995 M157)

Other Consultations

Action Products (1988 M48)

Ainsworth v Ford (1984 M26)

Andrews v Coleco (1984 M32)

Bailey v Rybinski (1988 M76)

Bolton v Sears/Whirlpool. Home automatic washing machine, electrocution during servicing (1983 M23)

Brockwell v Doughboy Recreational (1984 M91)

Buttars v Whirlpool Corp. (1985 M59)

Charles v Ford Motor Company (1985 M52)

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Flexible cable assembly machine, climbing to free jam, foot injury (settled prior to testimony) (E)

Four-way parts washer (1995 M64)

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Gilroy v Winter & Pettit (1988 M57)

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Home electric range, activation by child, severe burns (<86 M)

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Jerome v Wenzel (1995 M58)

Johns v Hertlein (1988 M221)

Johnson v M&M Implement/John Deere. Agricultural combine, severe hand injury during servicing (1983 M30)

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Kempf v Cooper-Bessemer. Air compressor, arm amputation during servicing (1983 M93)

Kennedy v Solar Engineering (1983 M29)

Kraus v Eggleston et al. (1986 M67)

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Mechanical power press, double-trip, partial hand amputation (deposition testimony) (<86 M)
Medici v Aluminum Manufacturing (1983 M54)
Mission Nat'l Insurance v Dow (1988 M63)
Motsinger v BHS Inc. (1985 M64)
Mulhaney v American Asphalt (1988 M92)
Multi-cab monorail steel-foundry conveyor, collision, severe burns (<86 M)
Nichols v DuPont (1986 M49)
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Palmowski v Douglas Dynamics (1988 M55)
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Power press, inadvertent activation, hand injury (settled prior to testimony) (E)
Power press, inadvertent activation, hand injury (settled prior to testimony) (E)
Recreational boat, collision with second boat, quadriplegia (<86 M)
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Rockwell v AJ Industries (1983 M91)
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Schmehl v Giddings & Lewis. (1988 M35)
Semaan v Zagar (1985 M43)
Service station exit fall (1995 M167)
Sheetmetal press, clearing jam with power on, partial hand amputation (settled prior to testimony) (E)
Spraying solvent-based material in enclosed space, explosion, ignition by electrical device, severe burns (<86 M)
Spring-wire coiling machine, eye injury while clearing jam (<86 M)
Stavale v Clark Equipment (1984 M62)
Steele v Julian Martin (1988 M68)
Travis v IPG (1988 M221)
Victory University, Memphis TN. Design of software engineering technology program (2012)
Walkie forklift truck, caught between truck and post, hand injury (settled prior to trial) (<86 M)
Webb (1988 M221)
Williams v Columbia Machine (1983 M45)
Wilson v Oliver Carr (1988 M47)
Woodworking saw, death due to neck/head injury (<86 M)
Yingst v D. Clark (1988 M73)
Zuellig v Marathon Oil (1988 M38)

**Plant Engineering and Construction Projects
Implemented for
Warehousing and Distribution Division of GM,
General Motors Corporation**

Total Project Management:

Hot Water Piping System, Flint, Michigan
Air Conditioning Compressors (160 tons), Flint
Diesel Fire Pump, Detroit, Michigan
Electric Air Compressor (500 cfm), Detroit
Rotary-screw Air Compressors (3), Drayton Plains, Michigan
In-plant Office Fire Protection System, Atlanta, Georgia
Air Conditioning Ductwork Revisions, Flint
Underground Paint Distribution Piping, Flint
Underground Fire Protection Main and City Water Service, Detroit
Electric Hot Water Heater, Detroit
Propane Storage and Vaporization Systems, Louisville, Kentucky; Kansas City, Kansas
Temperature Setback Systems, Louisville; Buffalo, New York; Boston, Massachusetts; Bethpage, New York; Philadelphia, Pennsylvania; Denver, Colorado; Edina, Minnesota; Baltimore, Maryland; Chicago, Illinois; Kansas City; Cleveland, Ohio; Cincinnati, Ohio; Portland, Oregon; Livonia, Michigan; Newark, New Jersey
Gas-fired Infrared Heating System, Denver
Office Humidification Boiler, Edina
Gas-fired Unit Heaters, Kansas City
Gas/Oil-fired Boiler Hot Water Space Heating System (800 BoHP) including construction of 2400 square foot Boilerhouse, Edina
Fire Protection and Security Monitoring System, Detroit
In-rack Fire Protection Sprinklers, Detroit
Computerized Energy Management Systems, Lansing, Michigan; Martinsburg, West Virginia; Flint; Drayton Plains; Belleville, Michigan

Participation in Design Teams:

Specifications for Computerized Energy Management System, Pontiac, Michigan
Specifications for Renovation of Newly Purchased 500,000 square foot Facility, Philadelphia
Specifications for Construction of New 500,000 square foot Facility, Reno-Sparks, Nevada