Expert Reconstruction Company LLC

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Quality and Experience with Integrity

CHRISTOPHER GAYNER

Curriculum Vitae

PROFESSIONAL EXPERT RECONSTRUCTION COMPANY LLC

EXPERIENCE Owner / CEO / Senior Consultant

1999 to Present

Complete Traffic Accident Reconstruction Service for attorneys, insurance companies, prosecutors, public defenders and government agencies. ACTAR certified by the Accreditation Commission for Traffic Accident Reconstruction. Automobile, truck, tractor-trailer, bus, train, motorcycle, bicycle, and pedestrian collision specialist. Twenty-eight years of total experience as a forensic engineering expert covering an extensive range of issues and assignments, including: accident reconstruction, accident causation, accident prevention, accident avoidance, human factors, vehicle dynamics, biomechanics, occupant dynamics, safety analyses, seat belts, airbags, occupant protection systems, crashworthiness, product liability, crash data retrieval, accident scene/roadway assessments (including geometry, lighting & visibility), total station surveys of accident sites & vehicles, vehicle damage & crush analyses, delta-v, time-position-speed histories, vehicle defect investigations & testing, lamp examinations, photogrammetric studies, transportation engineering & highway design issues, computer-aided reconstructions, simulations & animations, photographic documentation, technical reports, demonstrative exhibit preparation and expert testimony.

Civil & Criminal Cases. Plaintiff or Defense.

AUTOMOTIVE SAFETY RESEARCH Inc, Santa Barbara, CA

Vice President / Collision Reconstruction Specialist

1987 to 1999

Traffic Accident Reconstruction and Collision Safety Expert with more than 600 detailed technical case analyses performed over a twelve-year period. Accident reconstruction & causation analyses, human factors, occupant dynamics & biomechanics, occupant protection system evaluations (seat belts, airbags, and vehicle interior design), time-speed-position & delta-V calculations, computer-aided reconstructions and simulations, product defect investigation, airbag tank testing, accident scene and vehicle damage assessments. Deposition, arbitration, and trial experience throughout the United States.

EDUCATION UNIVERSITY OF CALIFORNIA, Santa Barbara, CA

Degree: Master of Science, Mechanical Engineering, 1988 Specific Areas of Study: Engineering Dynamics and Robotics Master's Thesis Project: Occupant Kinematics and Dynamics in Automobile Collisions

MONTANA STATE UNIVERSITY, Bozeman, MT

Degree: Bachelor of Science, Mechanical Engineering, 1986 Graduated with Highest Honors and Recipient of Gold Medal Award for Outstanding Graduating Senior, College of Engineering

FLATHEAD VALLEY COMMUNITY COLLEGE, Kalispell, MT

Degree: Associate of Science, Engineering, 1984 Math and Chemistry Awards for Excellence

CUESTA COLLEGE, San Luis Obispo - Paso Robles, CA

Introduction to Psychology, 2010 Human Anatomy with Laboratory, 2011

SPECIALNORTHWESTERN UNIVERSITY TRAFFIC INSTITUTETRAINING(N.U. Center for Public Safety), Evanston, IL

Traffic Accident Reconstruction I, December 1987 Traffic Accident Reconstruction II, July 1988

ENGINEERING DYNAMICS CORPORATION, Lake Oswego, OR

Computer Reconstructions (EDCRASH), January 1989 Computer Simulations (EDSMAC), August 1989

SOCIETY OF AUTOMOTIVE ENGINEERS, Detroit, MI

Product Liability and the Engineer, February 1990
Injuries, Anatomy, Biomechanics, and Federal Regulations, March 1990
Automobile Vehicle Dynamics, April 1992
Sensor Design for Automobile Air Bag Systems, January 1996
Air Bag Design and Performance, August 1997
Photogrammetry in Accident Reconstruction, September 1998
Accident Reconstruction: State of the Art, December 1999

SOCIETY OF ACCIDENT RECONSTRUCTIONISTS

Conference, Traffic Engineering Seminar and Staged Crash Tests College Station, TX, June 1990

SOUTHWESTERN ASSOCIATION OF TECHNICAL ACCIDENT INVESTIGATORS, INC.

Conferences, Human Factors Seminar and Staged Crash Tests Phoenix, AZ, July 1990 San Diego, CA, March 1991

UCSD SCHOOL OF MEDICINE, La Jolla, CA

Accidental Injury: Biomechanics and Prevention November 1991

35TH STAPP CAR CRASH CONFERENCE, San Diego, CA November 1991

BH₂VK CRASH TESTING PROJECT, San Bernardino, CA

August 1992

CUYAHOGA VALLEY JOINT VOCATIONAL SCHOOL, Brecksville, OH

Automotive Mechanics, March 1976

SANTA BARBARA CITY COLLEGE, Santa Barbara, CA

Mind/Supermind Adult Education Lecture Series. Presentations in Psychology and Human Consciousness. 1997-2007

CONFLICT MANAGEMENT INSTITUTE, Santa Barbara, CA

Mediation Training: Transformative Style, March 2008

FORENSIC EXPERT WITNESS ASSOCIATION, San Francisco

Web 2.0 Basics Seminar, March 2010

ARC-CSI CRASH CONFERENCE, Las Vegas, NV

Annual four day conference sponsored by the Accident Reconstruction Network (ARC) and Collision Safety Institute (CSI). Includes: One day at Las Vegas Motor Speedway consisting of live staged crash tests, followed by three days of lectures and presentations by various experts on current topics pertaining to traffic accident analysis & traffic accident reconstruction and technical presentation/analysis of crash data and visual media from the first day's staged collision tests.

May 2010, May 2011, June 2012

CALIFORNIA ASSOCIATION OF ACCIDENT RECONSTRUCTION SPECIALISTS (CAARS)

Collision Fraud Investigation, Anaheim, CA, August 2010 Railroad Crash Investigation, Garden Grove, CA, February 2011 Low Speed Impact Analysis Using IIHS & CDR Data, Glendora, CA, January 2015

CUESTA COLLEGE, San Luis Obispo - Paso Robles, CA

Introduction to Psychology, August - December 2010 Human Anatomy with Laboratory, January - May 2011

ARAS 360 TECHNOLOGIES INC., Kamloops, B.C. Canada

3-D Animation / Simulation Training Santa Ana Police Department, Santa Ana, CA, April 2011

Advanced 3-D Computer Diagramming and Animation Training Inglewood Police Department, Inglewood, CA, January 2012

Nikon Total Station Training and Certification Inglewood Police Department, Inglewood, CA, February 2012

ARAS 360 HD: New Functions & Features Webinar, June 2013

COLLISION SAFETY INSTITUTE / CDR-TRAINING.COM

Crash Data Retrieval (CDR) Technician Level I & II Training & Certification for Bosch CDR Tool Baldwin Park Police Dept., Baldwin Park, CA, February 2012

COLLISION SAFETY INSTITUTE / NORTHWESTERN UNIVERSITY CENTER FOR PUBLIC SAFETY

Crash Data Retrieval (CDR) Data Analyst Training & Certification, Bosch CDR Tool, NU/CPS, Evanston, IL, May 2012

VERICOM COMPUTERS INC.

Vericom Data Acquisition Training for Traffic Crash Investigation, L.A. County Sheriff's Station, Calabasas, CA, August 2013

NATIONAL HIGHWAY INSTITUTE, U.S. Department of Transportation, Federal Highway Administration

Maintenance Training Series: Basics of Work Zone Traffic Control, August 2013

SAFETY CENTER INCORPORATED, Claremont, CA

Temporary Traffic Control & Flagging, November, 2013

RESEARCH PROJECTS, LECTURES, ARTICLES "A Computer Graphics Program for Simulating Occupant Kinematics and Dynamics in Automobile Collisions", Master's Project, Department of Mechanical Engineering, UCSB, 1988

"Review of Methods for Crush Analysis of Automobile Structures," Research Paper, Special Topics in Finite Element Analysis, UCSB, 1988

"Anatomy, Dynamic Behavior, and Injury Mechanisms of the Neck and Cervical Spine (With an Emphasis on Motor Vehicle Accidents)," Seminar Presentation, Physiological Basis in Biomedical Engineering, UCSB, 1988

"Accident Analysis Overview," Lecture Presentation, California Association of Licensed Investigators (CALI), Goleta, CA, 1989

"Safety 101: Laws That Save Lives", Article, San Luis Obispo County Bar Association, Bar Bulletin, July-August 2008

"Expert Traffic Accident Reconstruction". Lecture Presentation, Case Studies and 3-D Computer Animation Demonstrations, Santa Barbara Trial Lawyers, Santa Barbara, CA, May 2011

OTHERUNIVERSITY OF CALIFORNIA, Santa Barbara, CAEMPLOYMENTGraduate Teaching Assistant / Lecturer

Teaching assistant and tutor for undergraduate university level mechanical engineering courses: Engineering Mechanics (Statics), Engineering Mechanics (Dynamics), Computer-Aided Design and Manufacturing.

PACIFIC DESIGN ENGINEERING, Camarillo, CA

Engineering Consultant

Designed components and accessories for wheelchairs and other devices for disabled persons. Provided vendor liaison, initiated prototype development, performed engineering analyses, standards compliance review and technical engineering drafting.

FLATHEAD VALLEY COMMUNITY COLLEGE, Kalispell, MT

Math Lab Director, Math, Physics, and Chemistry Tutor, Geology Lab Assistant, Bus Driver.

Managed College Tutorial Learning Center. Assisted students with learning disabilities and learning disadvantages through individual and group tutoring programs. Maintained and assisted Geology Department Laboratory operations. School bus driver and teaching assistant for Geology field trips.

COMINCO AMERICAN, INC., Gabbs, NV

Geologic Engineering Technician

Precious Metals Exploration, Engineering Land and Topographic Surveys, Geo-Physical Surveys, Atomic Spectroscopic Sampling and Analysis. Vehicle and Technical Equipment Operator.

U.S. FOREST SERVICE, Flathead National Forest, MT

Surveyor / Civil Engineering Technician

Preliminary Logging Road Surveys, Preliminary Road Design, Bridge Analyses and Surveys, Traffic Control, Truck & Equipment Operator.

NATIONAL PARK SERVICE, Glacier National Park, MT

Civil Engineering Technician / Laborer

Highway Construction and Maintenance Crew, Truck and Heavy Equipment Operator, Traffic Control, Pilot Car Operations, Flagman, Sign Installation.

AWARDS	Outstanding Engineering Senior Award, Montana State University
<u>and</u>	(aka Gold Medal Award - Montana Society of Engineers)
SCHOLARSHIPS	Graduation with Highest Honors
	National Dean's List
	College Honor Roll, Twenty-Two Consecutive Quarters
	Who's Who Among Students in American Junior Colleges
	Mott Souders Scholarship
	Owen E. Sowerine Scholarship
	American Gas Association Scholarship
	Society for the Advancement of Materials and Process
	Engineering Scholarship
	Engineering and Academic Scholarships
	Montana Board of Regents Scholarship
	California Regents/University Fellowship
PROFESSIONAL	ACTAR: Full Accreditation as a Traffic Accident Reconstructionist
<u>and</u>	Society of Accident Reconstructionists (SOAR)
HONOR	California Association of Accident Reconstruction Specialists
SOCIETIES	(CAARS)
	National Association of Professional Accident Reconstruction
	Specialists, Inc. (NAPARS)
	Accident Reconstruction Network (ARC Network)
	Society of Automotive Engineers (SAE)
	Association for the Advancement of Automotive Medicine (AAAM)
	American Society of Civil Engineers (ASCE)
	Engineer in Training (EIT)
	Pi Tau Sigma, Mechanical Engineering Honor Society
	Tau Beta Pi, Engineering Honor Society