

Expert Reconstruction Company

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Quality and Experience with Integrity



CHRISTOPHER GAYNER

Curriculum Vitae

PROFESSIONAL EXPERIENCE

EXPERT RECONSTRUCTION COMPANY

Owner / President / Senior Engineer

Serving California Since 1999

Complete Traffic Accident Reconstruction Services for attorneys, insurance companies, and government agencies. Automobile, truck, trailer, bus, train, motorcycle, bicycle, and pedestrian collision specialist. Over 23 years of expertise and experience with an extensive range of issues and assignments, including: accident reconstruction, accident causation, prevention & avoidance, human factors, safety analysis, occupant dynamics, seat belts, airbags, occupant protection, product liability, vehicle defect investigation & testing, forensic analysis, vehicle dynamics, accident scene/roadway analysis, vehicle damage/crush assessments, photogrammetric studies, transportation engineering & highway design, computer reconstructions & simulations, photographic documentation, technical reports, exhibit preparation, expert testimony.

Civil & Criminal Cases. Plaintiff or Defense.

AUTOMOTIVE SAFETY RESEARCH Inc, Santa Barbara, CA
Vice President / Accident 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 protection system evaluations, including: seat belts, airbags, and vehicle interior design. Airbag tank testing. Speed and Delta-V calculations, computer reconstructions, occupant kinematics, product defects, accident scene and vehicle damage assessments. Extensive deposition & trial experience throughout the United States.

EDUCATION

UNIVERSITY OF CALIFORNIA, Santa Barbara, CA

Degree: Master of Science, Mechanical Engineering, 1988

Specific Areas of Study: Dynamics and Robotics

Master's Thesis: Occupant Kinematics and Dynamics in Automobile Collisions.

MONTANA STATE UNIVERSITY, Bozeman, MT

Degree: Bachelor of Science, Mechanical Engineering, 1986

Outstanding Graduating Senior Award, College of Engineering

SPECIAL
TRAINING

NORTHWESTERN UNIVERSITY TRAFFIC INSTITUTE,
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 ACCIDENT RECONSTRUCTIONISTS

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

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.**

Conference, 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

SANTA BARBARA CITY COLLEGE, Santa Barbara, CA

Mind/Supermind Adult Education Lecture Series. Current research trends and presentations in psychology and human consciousness.

1997-2007.

CONFLICT MANAGEMENT INSTITUTE, Santa Barbara, CA

Mediation Training: Transformative Style, March 2008

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", San Luis Obispo County Bar Association, Bar Bulletin, July-August 2008.

OTHER
EMPLOYMENT

UNIVERSITY OF CALIFORNIA, Santa Barbara, CA

Graduate Teaching Assistant

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 and technical 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.

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

Surveyor/Engineering Technician

Preliminary Logging Road Surveys, Preliminary Road Design, Bridge Analysis and Surveys, Truck & Equipment Operator.

**NATIONAL PARK SERVICE, Glacier National Park, MT
Civil Engineering Technician**

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

AWARDS

and

SCHOLARSHIPS

Outstanding Engineering Senior Award, Montana

Society of Engineers, Montana State University

National Dean's List

Who's Who Among Students in American Junior Colleges

College Honor Roll, Twenty-Two Consecutive Quarters

Mott Souders Scholarship

Owen E. Sowerine Scholarship

Engineering and Academic Scholarships

American Gas Association Scholarship

Society for the Advancement of Materials and Process

Engineering Scholarship

Montana Board of Regents Scholarship

California Regents/University Fellowship

PROFESSIONAL

and

HONOR

SOCIETIES

Society of Automotive Engineers (SAE)

Society of Accident Reconstructionists (SOAR)

ARC – Accident Reconstruction Network

Tau Beta Pi, Engineering Honor Society

Pi Tau Sigma, Mechanical Engineering Honor Society

Phi Kappa Phi, University-wide Honor Society

FEE SCHEDULE

\$250/hour for case work

\$350/hour for testimony