

Expert Reconstruction Company

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Quality and Experience with Integrity

CHRISTOPHER GAYNER

Curriculum Vitae

EMPLOYMENT

EXPERT RECONSTRUCTION Co., San Luis Obispo, CA

President / Owner / Senior Consultant

1999 to Present

Complete Traffic Accident Reconstruction Service for attorneys, insurance companies, and government agencies. Automobile, truck, bus, train, motorcycle, bicycle, and pedestrian accidents. Manual and computer-aided reconstructions, human factors, causation issues, occupant dynamics, seat belt/airbag system analyses, product defect investigation & testing, forensic analysis, vehicle dynamics, accident scene/roadway analysis, vehicle damage/crush assessments, photographic documentation & interpretation, technical reports, court exhibit preparation, expert witness testimony. Civil & Criminal cases. Plaintiff or Defense.

AUTOMOTIVE SAFETY RESEARCH Inc, Santa Barbara, CA

Vice President / Accident Reconstruction Specialist

1987 to 1999

Expert Traffic Accident Investigation and Reconstruction. More than 600 Technical Accident Reconstructions performed over twelve-year period. Extensive courtroom and deposition experience. Restraint system and occupant protection system evaluations, including: seat belts, airbags, and vehicle interior design. Airbag tank testing. Speed and Delta-V analyses, computer reconstructions, occupant kinematics analyses, product defect investigations, accident scene and vehicle damage assessments. Testified more than 100 times throughout California and 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 Engineering Senior Award.

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

EDC Reconstruction (EDVAP/EDCRASH), January 1989

EDC Simulations (EDSMAC/EDSVS/EDVTS), 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

SPECIAL
TRAINING
(continued)

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

CONFLICT MANAGEMENT INSTITUTE, Santa Barbara, CA

Mediation Training: Transformative Style (Level I) with Judith Rubenstein, March 2008

RESEARCH
PROJECTS &
LECTURES

"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.

OTHER
EMPLOYMENT

UNIVERSITY OF CALIFORNIA, Santa Barbara, CA

Graduate Teaching Assistant

1986 to 1987

Teaching Assistant for 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 analysis 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. Operated school bus for Geology Department field trips.

COMINCO AMERICAN, INC., Gabbs, NV

Geologic Engineering Technician

Precious Metals Exploration, 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.

NATIONAL PARK SERVICE, Glacier National Park, MT

Civil Engineering Technician

Highway Maintenance and Construction, Truck and Heavy Equipment Operator, Sign Installation, Flagman.

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)

Pi Tau Sigma, Mechanical Engineering Honor Society

Tau Beta Pi, Engineering Honor Society

Phi Kappa Phi, University-wide Honor Society