

John K Tyson, P.E.

Consulting Engineer

AR TECH Forensic Experts Inc.

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Summary of Professional Background and Experience

EDUCATION

MSc Applied Mechanics
Cranfield Institute of Technology
Bedfordshire, England (1983)
B Sc. (Honors) Departments of Mechanical & Civil Engineering
Leeds University, England (1980)
Post Graduate Professional Engineering Certificate
East Warwickshire College, Rugby, England 1981
Licensed Engineering Contractor, CA
Registered Professional Engineer (CA)

FORENSIC ENGINEERING EXPERIENCE

General

Mr. Tyson has more than thirty three years full time experience in Accident Reconstruction, Safety and Forensic Engineering. He has investigated, analyzed and reconstructed more than five thousand accidents. He has supervised and trained many Engineers and Physicists in the field of Forensic Engineering. He has testified on several hundred occasions on a variety of aspects of Accident Reconstruction for both plaintiff and defense in depositions, arbitrations, civil and criminal, Municipal and Superior Court trials. He has been a Court appointed expert in numerous criminal trials with charges ranging from Manslaughter to First Degree murder. He has testified for individuals, major insurance companies, the California State Compensation Fund, Law Offices , County and City agencies. He is a consultant and provides engineering and safety expertise to many West Coast Cities including the cities of Los Angeles, Pasadena, Glendale, Burbank, Santa Monica, Ontario, Fountain Valley. He is an Engineering Consultant to many theme parks and public arenas including Walt Disney, Six Flags, Raging Waters, Los Angeles and Anaheim convention centers, Pasadena Rosebowl, Anaheim Stadium etc.

Vehicle Accident Reconstruction

Dynamics of vehicular collision (all types). 3D Real Time COLOR ANIMATION of multi vehicle collisions. Visibility analysis. Evaluation of different angles of viewing perspective including placement of viewing camera inside moving vehicle or target vehicle. Investigation of systemic failure of vehicular systems (including brakes, steering). Skid analysis Computer interfaced Skid testing. Full scale testing of buses trucks automobiles, bicycles. Vehicle component testing.

Products, Property, Fires

Building Code compliance UBC LABC LAMC Ramps. Stairways, Guardrails ADA. .
Lighting & Acoustical Analysis
Design analysis of machinery and plant. Design/manufacture defect investigation. Machine Guarding. Automatic Gates Ladders, Scaffolding. Appliances Product Reliability and Efficiency. Failure to warn. Code compliance OSHA, ANSI, ASTM, UL etc.
Machinery, structural. Vehicle fires

Pedestrian Accidents Slip & Fall Trip & Fall. Lighting

Specialty in Tribology (study of friction wear & lubrication theory). Coefficient of friction testing. Several thousand tests performed. Pre testing of flooring for public safety. Extensive experience with Department store chains, supermarkets, commercial property. Product evaluation-shoe manufacturers, footwear, floor products. Code analysis regarding construction of floor, steps, ramps landings. exits, handrails, sidewalks etc. UBC,LABC,State code compliance. Past & present projects /clients include Cities of Los Angeles, Pasadena, Glendale, Burbank, Santa Monica, Fountain Valley, Orange, Dept of Water & Power, Cal Gas Co.

Marine

Small vessel accident investigation. Underwater.(NAUI, BSAC certified)

INDUSTRIAL EXPERIENCE

TFS, Inc.

Technical & Forensic Services, Las Vegas Nevada (1988-present)
Accident reconstruction, Forensic Engineering, Expert Testimony

AR Tech Forensic Experts Inc, Encino, CA (1994-present)
Accident reconstruction, Forensic Engineering, Expert Testimony

Von Haenel & Associates, Glendale CA (1986-1994)
Chief Engineer & General Manager
Accident reconstruction, Forensic Engineering, Expert Testimony

Imperial Metal Industries (IMI) Ltd. Birmingham England (1980-82)
Mechanical Engineering. Design/Development. Plant Safety

Consolidated Goldfields , Australia (1979)
Mechanical Engineering. Heavy plant maintenance. Safety / Inspection Machinery Installation,
Development & testing.

Albright & Wilson Chemicals, England (1978)
Mechanical Engineering Safety, non destructive testing. Maintenance chemical plant.

Border Engineers Contractors (1977)
Engineering Construction Industry. Roads Domestic Housing. Commercial construction.

LECTURING POSITIONS

California State University Northridge
Engineering-Analysis of engineering Systems Adjunct faculty(1986)

C O B Nassau Technology Division
Lecturer Technology Division. (1982-84)

SOCIETY MEMBERSHIPS & AFFILIATIONS (Past & present)

Fellow: American College of Forensic Examiners Institute (FACFE) (1996)
Diplomate: American Board of Forensic Engineering & Technology (DABFET) (1996)
American Board of Forensic Medicine (DABFM)-Diplomate
Institute of Diagnostic Engineers (M Diag. Eng)
National Society of Professional Engineers
American Society of Testing Materials (ASTM)
American Society of Mechanical Engineers (ASME)
Society of Safety Engineers (ASSE)
Society of Automotive Engineers SAE)
National Association of Professional Accident Reconstruction Specialists (NAPARS)
International Conference of Building Officials (ICBO)
Southwestern Association of Technical Accident Investigators (SATAI)
Illuminating Engineering Society of North America (IES)
Accreditation Commission of Traffic Accident Reconstructionists (ACTAR)

CONSULTING FEE SCHEDULE

Engineering Consultation	\$450 /Hr
Expert Trial /Depo Testimony	\$500 /Hr

Technician Rate	\$90/Hr
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Mileage \$0.65/Mile

Photography \$1.50/ Print

DVD copies \$25 each

Out of pocket expenses: Cost + 15%

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