Institute of Risk & Safety Analyses
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BAN CHOI, M.S., CXLT

FORENSIC SCIENTIST

EDUCATION

Master of Science (M.S.)	Professional Physics, California State University, Long Beach, CA, 2024
Bachelor of Science (B.S.)	Physics, California State University, Fullerton, CA, 2017

PROFESSIONAL TRAINING

Crash Data Retrieval (CDR) Analyst	Collision Safety Institute, Escondido, CA, 2024
Hyundai-Kia & Tesla EDR Tool Operator/Technician	Kent E. Boots & Associates, Irvine, CA, 2024
Bicycle/E-Bike Dynamics	CAARS, Irvine, CA, 2024
OSHA 30 Hour General Industry	Summit Training Source, Online, 2020
Certified XL Tribometrist (#1906774)	Excel Tribometers, Denver, CO, 2019
CDR Technician	Collision Safety Institute, Temecula, CA, 2019

PROFESSIONAL SOCIETY MEMBERSHIPS

California Associations of Accident Reconstruction Specialists (CAARS), 2024
Society of Automotive Engineers (SAE International), 2022
National Association of Professional Accident Reconstruction Specialists (NAPARS), 2022

QUALIFICATIONS

I apply my knowledge of conservation of momentum, energy, and kinematics/statics to reconstruct auto accidents. For premises liability and industrial accidents, I use my understanding of relevant building codes, standards, federal regulations, and policies to determine the potential causes.

Drawing on my experience as a forensic scientist and my training, I apply principles of perception-response time, conspicuity, and contrast to assist in human factors assessment. Using these principles, I analyze how individuals process information and make decisions in both unexpected and expected situations.

Through my education of physics and biomedical engineering, I apply concepts such as Head Injury Criterion (HIC), Neck Injury Criterion (N_{ij}), delta-velocity and accelerations to perform biomechanical analysis. I quantify the forces involved in collisions and assess the potential for injury in accidents.

I analyzed more than 250 auto accident cases, including bicycle and pedestrian accidents, and more than 300 premises liability cases such as slip/trip and falls, including falling objects and construction accidents in which I

rendered opinions on reconstruction, human factors, and biomechanics through expert reports, declarations, conference calls and testimony.

PROFESSIONAL EXPERIENCE

Forensic Scientist (11-2018 – Present)

Institute of Risk and Safety Analyses

- Automotive accident reconstruction by reviewing available discovery documents, applying the laws of physics and inspecting the vehicles to calculate the relevant values such as pre-impact speed, delta-v and accelerations of occupants.
- Premises liability reconstruction by reviewing discovery documents and inspecting the incident location to determine relevant code compliance, standard of care, established internal policies and coefficient of friction.
- Human factors assessment through the utilization of relevant literature and research, application of relevant concepts and inspection of incident location.
- Biomechanics assessment using education and literature/research related to biomedical engineering
- Communication with clients via telephone calls regarding updates to the case, discovery and preliminary opinions.
- Render opinions as an expert witness in accident reconstruction, human factors and biomechanics.

Engineering Assistant (9/2018 – 11/2018)

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- Designing CAD layouts for telecom projects by utilizing the publicly available information such as assessor/parcel maps and Google Street View/Earth.
- QC of CAD from colleagues to ensure the accuracy of the drawings.
- Research of a variety of reference materials to aid in project drawings.