



formerly american bio engineers

Kevin T. Imada, BSME, BEXSc, CXLT
Accident Reconstruction Specialist and Forensic Expert

EDUCATION

- **Bachelor of Science in Mechanical Engineering**
University of Nevada, Las Vegas, 2017
- **Bachelor of Science in Exercise Science**
University of Southern California, 1993

LICENSES

Engineer Intern

- Nevada State Board of Professional Engineers & Land Surveyors, 2018
License # 0T7935

CERTIFICATIONS/ DESIGNATIONS

- **Certified XL Tribometrist (CXLT)** certification by Excel Tribometers, LLC. Knowledgeable in wet & dry slip testing and the analysis of pedestrian slip/trip & fall incidents, 2022.
- **Associate in Risk Management (ARM)** designation by the Institutes, 2021.
- **Child Passenger Safety (CPS) Technician** certification by Safe Kids Worldwide, 2020.
- **Damage Analysis & Estimating B6** certification by the National Institute of Automotive Service Excellence, 2012. Topics included damage analysis, estimating, legal and environmental practices, vehicle construction, vehicle systems, parts identification and source, and customer relations and sales.
- **Certified RV Damage Appraiser** certification by Duncan Systems, Inc., 2008.
- **Master Structural Damage Analysis Professional** certification by Chief Automotive Technologies, 2007.
- **Chartered Property Casualty Underwriter (CPCU)** designation by the Institutes, 2002. Courses included Ethics, Insurance Perspectives & Insurance Contract Analysis; Personal Insurance; Commercial Property Insurance; Commercial Liability Insurance;

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Insurance Operations; Legal Environment; Management; Accounting & Finance; and Economics.

- **Legal Principles Claim Specialist (LPCS)** designation by the American Educational Institute, 1999. Topics included law of contracts, tort concepts, tort theories and defenses, law of agency, law of bailments, law of damages, and law of subrogation.
- **Fraud Claim Law Specialist (FCLS)** designation by the American Educational Institute, 1999. Topics included recognizing fraud, special investigation, proving fraud, handling suspicious claims, avoiding bad faith and civil liability in handling suspicious claims, legal issues in fraud investigation and defense, and auto insurance fraud.

EXPERIENCE

American Bio Engineers, LLC, 2018/Present
Las Vegas, NV

- Accident reconstruction with areas of expertise in vehicular accidents, vehicular dynamics, speed analysis, time/motion studies, vehicle maintenance, and design strength analysis
- Types of cases reconstructed include: auto v. auto collisions, auto v. heavy truck/trailer collisions, auto v. truck collisions, auto v. motorcycle collisions, auto v. pedestrian collisions, and vehicle rollovers

United States Bureau of Reclamation, 2017/2017
Boulder City, NV

- Analyzed the malfunction of a bascule-gate control system from video evidence, drawings, and reports
- Compiled a database of critical urbanized canals and bridges from reports, area offices and districts
- Geotagged historic and present-day photos of a 1977 dam breach for comparison
- Assisted survey and rope-access teams with target positioning for surveying by UAV
- Shadowed engineers on facility and installation inspections

St. Paul Travelers/The Travelers Companies, 2005/2013
Las Vegas, NV

- Researched statutes, codes, ordinances, standards, regulations, and policy language for applicability and duties owed for liability exposure, fraud, and in consideration of potential litigation
- Completed field investigations at loss locations; identified and interviewed involved parties and witnesses
- Documented evidence, maintained evidence chain-of-custody integrity and sensitive document control

- Appraised damage to heavy/specialty equipment, motorcycles, recreational vehicles and private-passenger vehicles
- Prepared itemized estimates of repair utilizing the ADP PenPro, CYCLE-MATE, Duncan Systems, and CCC Pathways estimatic systems
- Served as a Certified Auto Subrogation Arbitrator for cases submitted by members of Arbitration Forums, Inc.

GEICO Direct Insurance, 2000/2005

Las Vegas, NV

- Appraised damage to motorcycles and private-passenger vehicles
- Negotiated repair scope and cost with body shops and vendors
- Prepared itemized estimates of repair utilizing the CCC EZESt and CCC Pathways estimatic platforms

Farmers Insurance Group of Companies, 1994/2000

Las Vegas, NV

- Supervised a team of claim representatives and a subrogation analyst
- Investigated and responded to insurance department and policyholder complaints
- Analyzed and resolved personal and commercial coverage claim issues
- Investigated liability, interviewed involved parties and witnesses, photographed scenes, and documented evidence
- Investigated vehicle theft and fire claims
- Completed handwritten vehicle damage estimates utilizing the Mitchell Collision Estimating and Motor Crash Estimating Guides (with emphasis on P-Page application), transitioning to computerized estimate reports utilizing the CCC EZESt estimatic platform
- Cross-trained in auto physical damage, liability, and property coverages through the Claims Management Training Program

HONORS/AWARDS

- Dean's Honor Roll, Howard R. Hughes College of Engineering, 2013 and 2016
- Second-Place Award-Mechanical Engineering, for the design of a machine to wear-test a biopolymer knee insert. Fred & Harriet Cox Senior Design Competition, 2017

PROJECTS

- Completed a senior-year capstone engineering project in partnership with an orthopedic surgeon/inventor to design a 6-degree-of-freedom wear-testing machine for a biopolymer knee insert

MEMBERSHIPS

- National Association of Professional Accident Reconstruction Specialists (NAPARS)
- American Society of Mechanical Engineers (ASME)

SPECIALIZED TRAINING/SEMINARS ATTENDED

“Control of Hazardous Energy “Lockout/Tagout” ” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2021)

- OSHA standard regulations
- Energy sources
- Control of hazardous energy
- Lockout/tagout procedures
- Verification
- Employee Training Requirements
- Developing an energy control program

“Control of Workplace Emergency and Evacuation” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2021)

- Disaster preparedness
- A starting point for risk assessment of facilities
- Procedure for developing an emergency action plan
- Emergency action plan failures
- Protection from airborne, biological, radiological attacks
- Dealing with mass evacuations

“Workplace Evaluation & Management Tools” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2021)

- Development and management tools for safety and health programs
- Procedures for doing a safety assessment, job safety analysis, setting up a functional safety committee, and using root cause analysis to do a thorough accident investigation

“Ladders Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2021)

- General industry regulations and standards
- Rules governing safe construction, design, care & maintenance use of ladders
- Identification of types of ladders, their parts, inspections, safety issues & appropriate uses
- Employer & employee requirements & responsibilities on the use of ladders in walking-working surfaces

“Walking Working Surfaces Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2021)

- Walking working surfaces regulations & standards
- Differences of horizontal & vertical surfaces
- Fall protection systems & falling object protection criteria & practices
- Regulations & standards for step bolts, manhole steps, stairways, dock boards & guard rail systems

“Respiratory Protection Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Atmospheric contaminants
- General requirements for a respirator program
- Medical evaluations for respirator users
- Fit testing protocols
- Respirator training requirements

“OSHA 10 Hour Construction” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Introduction to OSHA
- General safety and health requirements
- Scaffolding
- Fall protection
- Personal protective equipment
- Electrical
- Excavations
- Chemical hazard communication
- Stairways and ladders

“OSHA 10 Hour General Industry” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Introduction to OSHA
- Electrical
- Machine guarding
- Bloodborne pathogens
- Hazard communication
- Walking and working surfaces
- Confined space
- Means of egress and fire protection
- Materials handling
- Personal protective equipment

“Written Workplace Safety Program” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Need for effective safety program
- Nevada law on workplace safety
- Elements of a workplace safety program: policy and responsibility, hazard identification, training, accident investigation, compliance, safety committee

“Self Inspections – 12 weeks to a Safer Workplace” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Written program requirements
- Safe storage of materials
- Fire and emergency plans
- Powered industrial truck safety
- Machine safety, power tools, and lockout/tagout
- Walking-working surfaces and ladders
- Personal protective equipment
- Electrical safety

“OSHA Injury & Illness Recordkeeping ‘300 Log’ ” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- OSHA’s basic recordkeeping requirements
- Injury and illness recordkeeping criteria
- Recordable and non-recordable injury/illness determination
- Forms and maintenance
- Posting requirements

“Workplace Violence Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- The perpetrators of workplace violence
- The risk factors related to workplace violence
- At-risk businesses and occupations
- OSHA’s recommendations for prevention of workplace violence

“Personal Protective Equipment” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Protective equipment
- Statutory requirements
- Hazards requiring protection
- Use, care and storage of PPE
- Limits of protection
- Who provides PPE

“Confined Space Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Confined space evaluation
- Non-permit and permit required confined spaces
- Potential hazards associated with permit required confined spaces
- OSHA requirements for permitted confined space entry
- Components of an entry permit program
- Emergency response to confined space incidents

“Hearing Conservation Program” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Anatomy of the human ear
- Causes of hearing loss
- Choosing proper methods of noise control
- Developing a hearing conservation program
- Physics of sound
- Primary requirements of OSHA’s noise regulations

“Bloodborne Pathogens Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Bloodborne diseases
- Blood and body fluid exposures in the workplace
- Increased exposure to potential for hepatitis B
- Exposure control plans
- Universal precautions and personal protective equipment
- Hepatitis B vaccination
- Safe work practices

“Safety Data Sheets” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Safety data sheet components
- Dose – response relationships
- Individual susceptibility to toxicity
- Safety data sheet terminology
- Target organ effects

“Hazard Communication Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Written Program Requirements
- Labeling/inventory
- Safety data sheets
- Employee information and training

“Introduction to OSHA” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Purpose and history of OSHA Act
- Functions of the enforcement section
- Functions of the consultation section
- Sources of the occupational safety and health standards

“Electrical Hazard Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Basics of electricity
- Electrical safety
- Hazard identification
- Controlling electrical hazards

“Sanitation in the Workplace” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Drinking water
- Wash water
- Toilets
- Cooking & lunchrooms
- Showers

“Concrete and Masonry Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- General requirements
- Equipment and tools
- Cast-in-place concrete
- Precast concrete
- Lift-slab operations
- Masonry construction

“Steel Erection Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- General requirements
- Controlling contractor responsibilities
- Hoisting and rigging
- Structural assembly
- Fall protection
- Training requirements

“Supervisory Communication with Non-English Speaking Employees” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Background information on Communication
- Situations of communicating with someone from another cultural background
- Nevada requirements for employers
- Tips to ease communication
- Some helpful Spanish phrases

“Power Industrial Trucks ‘Forklift Safety Awareness’ ” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- OSHA standards requirements
- Safe Operating procedures
- Operator responsibilities
- Load handling consideration
- Inspection and maintenance requirements

“Excavation Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- OSHA 1926.650, .651 and .652 Standards
- General requirements: locating utilities, hazardous atmospheres, inspections, access and egress
- Soil Classifications
- Protective system requirements
- Sloping or benching
- Shoring or shielding

“Scaffold Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Compliance dates
- General requirements
- Capacity
- Platform construction
- Criteria for supported scaffolds
- Access
- Fall protection
- Training requirements

“Fall Protection Regulatory Review” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- OSHA 1926, subpart M
- Fall protection plans
- Guardrails
- Safety net
- Personal fall arrest systems
- Protection from falling objects
- Training requirements

“Asbestos Awareness” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Natural occurring asbestos fiber types
- The exposure potential
- The increased hazard for individuals that smoke
- Protection considerations
- The controls needed

“Machine Safeguarding” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- General machine safeguarding concepts
- Woodworking machinery
- Abrasive wheel machinery
- Mechanical power presses
- Mechanical power transmission apparatus
- General requirements

“Reviewing Codes, Standards and Regulations” (Department of Business and Industry Division of Industrial Relations Safety Consultation and Training Section, Las Vegas, NV 2020)

- Title 29 Code of Federal Regulations
- Nevada Revised Statutes
- Nevada Administrative Codes
- Researching specific components of the Occupational Safety and Health standards
- Using paragraphs, charts, tables, illustrations and appendices of the General Industry and Construction Standards

“SATAI Conference” (SATAI, Various Presenters, Glendale, AZ, 2020)

- Electric Scooters
- E-Scooter vs. Car Crash Test
- CDR System Operators / Analysis & Applications Course Series – The CDR 900 Interface and Toyota TechStream / PCS & VCH Data
- iINPUT-ACE Traffic Seminar

“ARC-CSI Crash Conference” (ARC-CSI, Various Presenters, Las Vegas, NV, 2013)

- Damage, Energy and Computer Simulations
- Accident Reconstruction Using CRASH3 and LS-Dyna
- Braking Systems for Passenger Cars and Light Trucks
- Reliability of Crash Triggered Video and Data Recorders for Accident Reconstruction
- The Investigation of Transit System Events
- ARAS360: Combining Momentum Technology and SMAC Technology
- Differentiating Potentially Casual Pre-Crash Component Damage from Crush
- Further Developments Regarding the Dynamic Modeling of Motor Vehicle Collision Response using the SDOF Approach
- Advances in Forensic Photography for Crash Investigations
- Motorcycle Crash Case Study and Evolving Motorcycle Technologies
- Determination of Vehicle Orientation at Ground Contact for Rollover Accidents
- PDOF, DOPF: What is it? How important is it?
- EDC: Reconstruction Techniques for Complex Crashes

“Inspection and Investigation of Commercial Vehicle Crashes” (IPTM, Scottsdale, AZ, 2012)

- 40 hour course.
- Center of mass determinations
- Jackknifing
- Hydroplaning
- Rollover
- Weight shifting
- Vehicle dynamics in braking
- Tractor-trailer skid testing including observation of tires and surfaces after applications of different configurations of brakes.

“Investigation of Motorcycle Crashes” (IPTM, Scottsdale, AZ, 2012)

- 40 hour course.
- Analysis and interpretation of the motorcycle crash scene
- Modes of instability and handling characteristics of motorcycles
- Field testing of multiple brake types and application with skid mark analysis
- Slide-to-stop and tumbling drag factors of motorcycles
- Motorcycle skid testing including observation of tires and surfaces after different braking applications
- Operator factors
- Motorcycle tires, helmets, and other equipment
- Practical application of formulas

"Vehicle Dynamics" (Contra Costa County Law Enforcement Training Center, Concord, CA, 2011)

- 40 hour course.
- Analysis of crush deformation; measuring crush and damage profiles
- Calculation of A, B, and G stiffness coefficients and 2, 4, 6 point crush equations to calculate dissipated energy

"Traffic Collision Reconstruction, Level 2" (Contra Costa County Law Enforcement Training Center, Concord, CA, 2011)

- 40 hour course.
- Reconstruction of previously investigated traffic accidents from scale diagrams, photos, and party statements

"Traffic Collision Reconstruction, Level 1" (Contra Costa County Law Enforcement Training Center, Concord, CA, 2011)

- 80 hour course.
- Determination of speed based on law of conservation of momentum and law of conservation of energy concepts
- Analysis of speed from damage and vehicle dynamics
- Motorcycle, auto/pedestrian/bicycle, commercial vehicle collision analysis

"Auto-Pedestrian Collision Investigation" (Vallejo Police Department, Vallejo, CA, 2010)

- 40 hour course.
- Auto-pedestrian formulae
- Pre- and post-crash dynamics
- Pedestrian injury mechanism
- Staged collisions with anatomical dummies

"Traffic Collision Investigation – Advanced" (Contra Costa County Law Enforcement Training Center, Concord, CA, 2010)

- 80 hour course.
- Projectile motion
- Time-distance analysis
- Lamp examination
- Human, environmental, and vehicle factors
- Scale diagrams
- Collision scene measurement techniques
- Vehicle and occupant kinematics
- Photography
- Basic motion

“Traffic Collision Investigation – Intermediate” (Contra Costa County Law Enforcement Training Center, Concord, CA, 2009)

- 40 hour course.
- Identification, measurement, and documentation of tire friction marks
- Determination of speed from skid including participation in skid tests

“Traffic Collision Investigation – Basic” (Contra Costa County Law Enforcement Training Center, Concord, CA, 2009)

- 40 hour course.
- Basic requirements for investigating traffic collisions and completing reports

National Insurance Crime Training Academy (NICTA), (2011-2013)

- General Series
- Property Series
- Medical Series
- Investigations Series

Duncan Systems RV Damage Appraisal School, (2008)

“Advanced Frame Analysis” (Chief Automotive Systems, Rancho Cordova, CA, 2007)

- Collision theory of body-on frame vehicles
- Hands-on structural realignment of a damaged body-on-frame vehicle
- Visual inspection of vehicle lower and upper structures to determine types of misalignment
- Analysis of damaged/misaligned steering and suspension components and verifying alignments

“Advanced Steering & Suspension” (Chief Automotive Systems, Rancho Cordova, CA, 2007)

- Steering-geometry angles and their relationship to vehicle handling
- Weight distribution and its effect on steering and suspension
- Troubleshooting bent, worn, and damaged steering and suspension components

Spies Hecker Refinishing School, (2007)

3M Plastics and Composites Repair, (2007)

“Structural Damage Analysis” (Chief Automotive Systems, Mesa, AZ, 1998)

- Collision theory of unitized-body and body-on-frame vehicles
- Hands-on gauging, measuring, and analysis of collision damage
- Hands-on structural repair of a damaged unitized-body vehicle

BASF Refinishing School (1995)

The Inter-Industry Conference on Auto Collision Repair (I-CAR) Courses, (1994-2007)

- Alternative Fuels
- Aluminum Strengthening and Replacement
- Detailing
- Suspension and Steering
- Collision Repair 2000
- Electronics
- Advanced Vehicle Systems
- Finish Matching
- Plastic Repair

“Discovery in Nevada Bad Faith Litigation” (National Business Institute) (2004)

RESEARCH

- Jan 2020 Performed and participated in rear-end impact testing involving instrumented human volunteers using a 2012 Hyundai Genesis Coupe and a 1999 BMW 528i in Glendale, AZ.
- Jun 2018 Performed and participated in instrumented car-to-car rear-end impacts with human subject using 2005 to 2007 Toyota Camrys and Corollas in Las Vegas, NV.
- Mar 2018 Performed and participated in instrumented oblique lateral minor impacts involving human female subjects and instrumented Hybrid III ATDs at angles of 45°, 60°, and 90° using 2005 to 2007 Toyota Camrys and Corollas in Las Vegas, NV.