



Kurtis Saiyo PE, CFEI, CVFI
Senior Mechanical Engineer

PROFILE

Kurtis is a Professional Mechanical Engineer with over 12 years of experience of forensic engineering and failure analysis. He has examined residential and commercial structures, HVAC and refrigeration systems, processing and manufacturing equipment, agricultural and industrial equipment, wastewater systems, plumbing and fire suppression systems, consumer and commercial appliances, passenger and commercial vehicles, and residential and commercial kitchen hood systems.

Kurtis is additionally skilled at utilizing CAD, mathematical modeling and computer simulation to test hypotheses and communicate engineering findings. Common failure effects include water losses, fire losses, equipment damage, environmental hazards, business interruption personal injury and wrongful death. He has collaborated with the Department of Justice Bureau of Alcohol, Tobacco, Firearms, and Explosives National Response Team.

EDUCATION

Bachelor of Science, Mechanical Engineering, 2013
California State University – Chico, California

LICENSES & CERTIFICATOINS

Professional Mechanical Engineer (PE), California

Certified Fire and Explosion Investigator (CFEI)

Certified Vehicle Fire and Explosion Investigator (CVFI) – NAFI

CONTINUING EDUCATION

- ▶ Ethical Duties Beyond the Fire Scene – CFITrainer.net – 3 Credit Hours, IAAI, February 2025
- ▶ Donning & Doffing Personal Protective Equipment, CFITrainer.net – 3 Credit Hours, IAAI, January 2025
- ▶ Commercial Mechanical Inspector (2015/2018 IMC), W3C Code Academy, March 2021
- ▶ Preventing Occupational Exposures to Carcinogens at the Fire Scene, International Association of Arson Investigators (IAAI) CFI Trainer, 2020
- ▶ Residential Natural Gas Systems, IAAI CFI Trainer, 2020
- ▶ Investigating Natural Gas Systems, IAAI CFI Trainer, 2020
- ▶ Motor Vehicles: Transmission, Exhaust, Brake and Accessory Systems, IAAI CFI Trainer, 2020
- ▶ Motor Vehicles: The Engine and the Ignition, Electrical and Fuel Systems, IAAI CFI Trainer, 2020
- ▶ Investigating Motor Vehicle Fires, IAAI CFI Trainer, 2020
- ▶ Discovery in Civil Cases, IAAI CFI Trainer, 2020
- ▶ The Deposition Part 1, IAAI CFI Trainer, 2020
- ▶ The Deposition Part 2, IAAI CFI Trainer, 2020

OFFICE

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CONTACT

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WEBSITE

www.infinityforensics.net



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- ▶ All-Water Systems, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2020
- ▶ Hydronic Systems, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2020
- ▶ Hydronic System Architecture, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2020
- ▶ Controls, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2020
- ▶ Building Elevator Systems (A06-001- 6 PDH), Continuing Education and Development, Inc., 2020
- ▶ HVAC Design Level I Essentials, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2018
- ▶ HVAC Design Level II Applications, American Society of Heating, Refrigerating and Air-Conditioning Engineers, 2018
- ▶ Lead Awareness, Cal-OSHA CCR (RGA Environmental), 1 hour, 2016
- ▶ Asbestos Awareness, Cal-OSHA CCR (RGA Environmental), 2 hours, 2016
- ▶ Forensic Photography, Sacramento-Sierra Regional Arson Task Force, 2015
- ▶ Advanced Electrical Fire Investigation, U.S. Dept. Justice - Bureau of Alcohol, Tobacco, Firearms, and Explosives, 2015
- ▶ Asbestos Awareness, Lead Awareness, and Hazard and Fire Scene Toxins, HAZMAT Fire Scene
- ▶ Awareness Certification, 2014

PROFESSIONAL AFFILIATIONS

- ▶ National Association of Fire Investigators, Member (NAFI)
- ▶ American Society of Mechanical Engineers (ASME)
- ▶ National Society of Professional Engineers, Member (NSPE)

PROFESSIONAL BACKGROUND

July 2025 – Present: Infinity Forensics LLC – San Jose, California

Senior Mechanical Engineer

September 2017 – June 2025: Jensen Hughes (Formally CASE Forensics) – San Leandro, California

Senior Mechanical Engineer

September 2016 – September 2017: Fire Cause Analysis – Berkeley, California

Technical Field Supervisor

September 2013 – September 2016: Fire Cause Analysis – Berkeley, California

Mechanical Engineer

PRESENTATIONS

- ▶ Property Claims Association of the Pacific: Study and Analysis of Failures, May 2014
- ▶ Fire Cause Analysis Investigator's Meeting: Electrical Tailboard, February 2014