

**JOSHUA SEAN BASTIAN, EIT, CFEI
CURRICULUM VITAE**

Joshua Bastian is a registered engineer in training in California specializing in mechanical engineering and failure analysis of residential and consumer appliances. He works under the guidance of a professional Mechanical Engineer and professional Fire Protection Engineer.

QUALIFICATIONS:

- Provided failure analysis for over 100 commercial and residential property loss claims involving fire and water damage. Conducted on-scene and laboratory examination and analyses.
- Conducted engineering and testing for cases involving gas and electric stoves, furnaces, electrical outlets, outdoor and indoor lights, electric appliances, pellet stoves, pool pumps, microwaves, portable heaters, and HVAC systems.
- Performed material flame performance testing (UL 94 equivalent) on a residential space heater, a residential dishwasher, and other plastic samples.
- Collaborated on investigations with certified fire investigators, fire scientists and professional engineers.
- Over 100 solo origin and cause fire investigations.

EDUCATION & CERTIFICATIONS:

PE Examination <i>Passed Professional Engineering Exam for Mechanical Engineers</i>	April 2019
Certified Fire & Explosion Investigator <i>National Association of Fire Investigators</i>	March 2016
Registered Engineer in Training <i>Board for Professional Engineers, Land Surveyors and Geologists CA Certificate No. EIT 157113</i>	Dec. 2015
Mechanical Engineering, Bachelor of Science <i>University of California, Berkeley</i>	June 2003
Film and Digital Media, Bachelor of Arts <i>University of California, Santa Cruz</i>	July 2001

PROFESSIONAL DEVELOPMENT:

FCA Investigator Meeting: <u>Co-Presenter</u> <i>Evidence Collection, Documentation, and Dryer Fires; 2hrs. Tested</i>	May 2019
Cal-OSHA FIT (Terracon) <i>Respirator FIT Tested</i>	Aug. 2018
Cal-OSHA CCR (Terracon) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	Aug. 2018
Great Lakes Analytical: Webinar <i>Evidence Collection and Laboratory Testing</i>	Nov. 2017
Cozen O'Connor: Webinar <i>Fireplace and Chimney Subrogation: Common Claims and Recovery</i>	Oct. 2017
Cal-OSHA CCR (Argus Pacific) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	Aug. 2017
Fire Cause Analysis: Hal Lyson, CFI <i>NFPA 921 2017 Ed. Updates: 1 hr. Tested class</i>	April 2017
Cozen O'Connor: Webinar <i>Ventilation Fan Fires: Was the Ignition Inside or Outside the Fan?</i>	March 2017
Berkeley City Commons Club: <u>Co-Presenter</u> <i>Introduction to Fire Investigation</i>	Feb 2017
Fire K9.org: David Brien, EFI Global and John Dehaan <i>Arson Investigation Update: 4 hrs. Tested class</i>	Oct. 2016
IAAI North Dakota Chapter: <u>Co-Presenter</u> Tested Class <i>Fire Modeling: Tools for Fire Investigation and Testing the Hypotheses</i>	July 2016
Cozen O'Connor: Webinar <i>Lithium Battery Losses and Subrogation Issues</i>	March 2016
San Diego Fire-Rescue Dept – Metro Arson Strike Team <i>Ignition, Self-heating, and Spontaneous Combustion</i>	March 2016
Fire Cause Analysis <i>Promoted to Engineer Associate</i>	March 2016
Cal-OSHA CCR (RGA Environmental) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	June 2015
Sacramento-Sierra Regional Arson Task Force <i>Forensic Photography</i>	April 2015
Cozen O'Connor: Webinar <i>Expert Challenges and the Revised NFPA 1033</i>	Dec 2014
US Dept. Justice - Bureau of Alcohol, Tobacco, Firearms, and Explosives <i>Advanced Electrical Fire Investigation</i>	Sept 2014
Cal-OSHA CCR (RGA Environmental) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness; 1hrs. Hazard</i>	June 2014

Comm from Fire Scene Toxins
California Conference of Arson Investigators Bay Area Round Table Course **April 2014**
Crime Scene Investigation at Fire Scenes

California Conference of Arson Investigators Bay Area Round Table Course **March 2014**
Anatomy of a Wrongful Arson Conviction

California Conference of Arson Investigators Bay Area Round Table Course **Oct. 2013**
Getting the Most Out of Your Fire Scene

Fire Cause Analysis Investigators Class **July 2013**
Wildland Fire Pattern Recognition Workshop

Fire Cause Analysis **July 2013**
Hired as Research Associate

PROFESSIONAL:

Member – ASME (American Society of Mechanical Engineers) **March 2016 - Present**
Member – National Association of Fire Investigators **Feb 2016 - Present**