

CURRICULUM VITAE JOSHUA S. BASTIAN, PE, CFEI

Joshua Bastian is registered professional engineer in California specializing in mechanical engineering and failure analysis of residential and consumer appliances.

QUALIFICATIONS:

- Provided failure analysis for hundreds 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, dishwashers, e-cigarettes, hobby vehicles, portable tool batteries, 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 Certification California, License# M 40120	July 2020
Board for Professional Engineers, Land Surveyors and Geologists	
PE Examination	April 2019
Passed Professional Engineering Exam for Mechanical Engineers	
Certified Fire & Explosion Investigator	March 2016
National Association of Fire Investigators	
Registered Engineer in Training	Dec. 2015
Board for Professional Engineers, Land Surveyors and Geologists	
CA Certificate No. EIT 157113	
Mechanical Engineering, Bachelor of Science	June 2003
University of California, Berkeley	
Film and Digital Media, Bachelor of Arts	July 2001
University of California, Santa Cruz	

FIRE INVESTIGATION & FORENSICS & FIRE SCIENCE & ENGINEERING

ANSWERS FROM ASHES™

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PROFESSIONAL DEVELOPMENT:

Arson Investigators Subrogation Webinar Series	Sept. 2020
The New Impact: NFPA 921, 2021 Ed. and NFPA 1033 2022 Ed.	
FCA Investigator Meeting: Co-Presenter	May 2019
Evidence Collection, Documentation, and Dryer Fires; 2hrs. Tested	
Cal-OSHA FIT (Terracon)	Aug. 2018
Respirator FIT Tested	
Cal-OSHA CCR (Terracon)	Aug. 2018
1hr. Lead Awareness; 2hrs. Asbestos Awareness	3. A0.1 =
Great Lakes Analytical: Webinar	Nov. 2017
Evidence Collection and Laboratory Testing	0 / 2015
Cozen O'Connor: Webinar	Oct. 2017
Fireplace and Chimney Subrogation: Common Claims and	
Recovery	4 2015
Cal-OSHA CCR (Argus Pacific)	Aug. 2017
1hr. Lead Awareness; 2hrs. Asbestos Awareness	A: 1 2017
Fire Cause Analysis: Hal Lyson, CFI	April 2017
NFPA 921 2017 Ed. Updates: 1 hr. Tested class Cozen O'Connor: Webinar	March 2017
	March 2017
Ventilation Fan Fires: Was the Ignition Inside or Outside the Fan? Berkeley City Commons Club: Co-Presenter	Feb 2017
Introduction to Fire Investigation	ren 2017
Fire K9.org: David Brien, EFI Global and John Dehaan	Oct. 2016
Arson Investigation Update: 4 hrs. Tested class	Oct. 2010
IAAI North Dakota Chapter: <u>Co-Presenter</u> Tested Class	July 2016
Fire Modeling: Tools for Fire Investigation and Testing the	July 2010
Hypotheses	
Cozen O'Connor: Webinar	March 2016
Lithium Battery Losses and Subrogation Issues	1,141 cm 2010
San Diego Fire-Rescue Dept – Metro Arson Strike Team	March 2016
Ignition, Self-heating, and Spontaneous Combustion	
Fire Cause Analysis	March 2016
Promoted to Engineer Associate	
Cal-OSHA CCR (RGA Environmental)	June 2015
1hr. Lead Awareness; 2hrs. Asbestos Awareness	
Sacramento-Sierra Regional Arson Task Force	April 2015
Forensic Photography	-
Cozen O'Connor: Webinar	Dec 2014
Expert Challenges and the Revised NFPA 1033	
US Dept. Justice - Bureau of Alcohol, Tobacco, Firearms, and	Sept 2014

Explosives Advanced Electrical Fire Investigation Cal-OSHA CCR (RGA Environmental) 1hr. Lead Awareness; 2hrs. Asbestos Awareness; 1hrs. Hazard	June 2014
Comm from Fire Scene Toxins California Conference of Arson Investigators Bay Area Round Table Course Crime Scene Investigation at Fire Scenes	April 2014
California Conference of Arson Investigators Bay Area Round Table Course Anatomy of a Wrongful Arson Conviction	March 2014
California Conference of Arson Investigators Bay Area Round Table Course Getting the Most Out of Your Fire Scene	Oct. 2013
Fire Cause Analysis Investigators Class Wildland Fire Pattern Recognition Workshop	July 2013
Fire Cause Analysis Hired as Research Associate	July 2013

PROFESSIONAL:

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