

CURRICULUM VITAE

JOSHUA S. BASTIAN, PE, CFEI

Joshua Bastian is a 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, HVAC systems, exhaust fans, grow lights, and hoverboards.
- 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 250 solo origin and cause fire investigations.

EDUCATION & CERTIFICATIONS:

PE Certification California, License# M 40120 <i>Board for Professional Engineers, Land Surveyors and Geologists</i>	July 2020
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

FIRE INVESTIGATION - FORENSICS - FIRE SCIENCE & ENGINEERING

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PROFESSIONAL DEVELOPMENT:

Mercury Learning Exchange Course: <u>Co-Presenter</u> <i>Fire Investigations and Analysis of an Evolving Solar Panel Industry;</i> <i>2 hrs. Tested</i>	Feb. 2023
NASP: Webinar <i>NFPA 921 - The Impact of This Guide on Your Fire Claim</i>	Oct. 2022
Safety Unlimited, Inc.: Online Training <i>Asbestos Awareness</i>	Sept. 2022
Safety Unlimited, Inc.: Online Training <i>Lead Awareness for General Industry</i>	Sept. 2022
California Conference of Arson Investigators: Webinar <i>Fire Science & Fire Dynamics; 4 hrs.</i>	July 2022
Safety Unlimited, Inc.: Online Training <i>Asbestos Awareness</i>	Oct. 2021
Safety Unlimited, Inc.: Online Training <i>Lead Awareness for General Industry</i>	Oct. 2021
Fire Cause Analysis Training for Mercury Insurance: <u>Presenter</u> <i>Hot Topics in Product Fires: Hoverboards, E-Cigs, Smart Meters,</i> <i>Drones and more!; 2 hrs. Tested</i>	Oct. 2021
Cozen O'Connor: Webinar <i>The Dog Did It: Inadvertent Stove Activation</i>	June 2021
Cozen O'Connor: Webinar <i>Cracking of Plumbing Components & Subrogation</i>	May 2021
Cozen O'Connor: Webinar <i>Forensic Analysis of Fire Caused by Improper Fireplace</i> <i>Installation</i>	April 2021
Cozen O'Connor: Webinar <i>Rechargeable Subrogation</i>	Feb. 2021
Fire Cause Analysis: John White <i>Evidence and Engineering; 2.75hrs</i>	Feb. 2021
Fire Cause Analysis: Ulises Castellon <i>Fire & Explosion Investigations That Sizzle; 2hrs</i>	Jan. 2021
Cozen O'Connor: Webinar <i>Product(ive) Subro Claims</i>	Nov. 2020
Fire Cause Analysis Investigator Meeting: <u>Co-Presenter</u> <i>Beyond the Scene: Evidence Collection and Moving the Case</i> <i>Forward for Subro and Liability Claims</i>	Oct. 2020
Arson Investigators Subrogation Webinar Series <i>The New Impact: NFPA 921, 2021 Ed. and NFPA 1033 2022 Ed.</i>	Sept. 2020
Fire Cause Analysis Investigator Meeting: <u>Co-Presenter</u> <i>Evidence Collection, Documentation, and Dryer Fires; 2hrs.</i> <i>Tested</i>	May 2019
Cal-OSHA FIT (Terracon)	Aug. 2018

<i>Respirator FIT Tested</i>	
Cal-OSHA CCR (Terracon)	Aug. 2018
<i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	
Great Lakes Analytical: Webinar	Nov. 2017
<i>Evidence Collection and Laboratory Testing</i>	
Cozen O'Connor: Webinar	Oct. 2017
<i>Fireplace and Chimney Subrogation: Common Claims and Recovery</i>	
Cal-OSHA CCR (Argus Pacific)	Aug. 2017
<i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	
Fire Cause Analysis: Hal Lyson, CFI	April 2017
<i>NFPA 921 2017 Ed. Updates: 1 hr. Tested class</i>	
Cozen O'Connor: Webinar	March 2017
<i>Ventilation Fan Fires: Was the Ignition Inside or Outside the Fan?</i>	
Berkeley City Commons Club: <u>Co-Presenter</u>	Feb 2017
<i>Introduction to Fire Investigation</i>	
Fire K9.org: David Brien, EFI Global and John Dehaan	Oct. 2016
<i>Arson Investigation Update: 4 hrs. Tested class</i>	
IAAI North Dakota Chapter: <u>Co-Presenter</u> Tested Class	July 2016
<i>Fire Modeling: Tools for Fire Investigation and Testing the Hypotheses</i>	
Cozen O'Connor: Webinar	March 2016
<i>Lithium Battery Losses and Subrogation Issues</i>	
San Diego Fire-Rescue Dept – Metro Arson Strike Team	March 2016
<i>Ignition, Self-heating, and Spontaneous Combustion</i>	
Fire Cause Analysis	March 2016
<i>Promoted to Engineer Associate</i>	
Cal-OSHA CCR (RGA Environmental)	June 2015
<i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	
Sacramento-Sierra Regional Arson Task Force	April 2015
<i>Forensic Photography</i>	
Cozen O'Connor: Webinar	Dec 2014
<i>Expert Challenges and the Revised NFPA 1033</i>	
US Dept. Justice - Bureau of Alcohol, Tobacco, Firearms, and Explosions	Sept 2014
<i>Advanced Electrical Fire Investigation</i>	
Cal-OSHA CCR (RGA Environmental)	June 2014
<i>1hr. Lead Awareness; 2hrs. Asbestos Awareness; 1hrs. Hazard Comm from Fire Scene Toxins</i>	
California Conference of Arson Investigators Bay Area Round Table Course	April 2014
<i>Crime Scene Investigation at Fire Scenes</i>	
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
<i>Getting the Most Out of Your Fire Scene</i>	
Fire Cause Analysis Investigators Class	July 2013
<i>Wildland Fire Pattern Recognition Workshop</i>	
Fire Cause Analysis	July 2013
<i>Hired as Research Associate</i>	

ASSOCIATIONS:

Member – IAAI (International Association of Arson Investigators)	Nov 2020 - Present
Member – ASME (American Society of Mechanical Engineers)	March 2016 - Present
Member – National Association of Fire Investigators	Feb 2016 - Present