

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:

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| 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:

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| Fire Cause Analysis Investigator Meeting: <u>Presenter</u> <i>Engineering Case Studies: Illustration of the work group and the tools we use</i> | Dec. 2023 |
| FSRI Lithium-Ion Battery Symposium: Streaming Video <i>Challenges for the Fire Service; 6 hrs.</i> | March 2023 |
| Mercury Learning Exchange Course: <u>Co-Presenter</u> <i>Fire Investigations and Analysis of an Evolving Solar Panel Industry; 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, 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 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 Forward for Subro and Liability Claims</i> | Oct. 2020 |
| Arson Investigators Subrogation Webinar Series | Sept. 2020 |

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| <i>The New Impact: NFPA 921, 2021 Ed. and NFPA 1033 2022 Ed.</i> | |
| Fire Cause Analysis 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 Explosions <i>Advanced Electrical Fire Investigation</i> | Sept 2014 |
| Cal-OSHA CCR (RGA Environmental) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness; 1hrs. Hazard Comm from Fire Scene Toxins</i> | June 2014 |

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| California Conference of Arson Investigators Bay Area Round Table Course <i>Crime Scene Investigation at Fire Scenes</i> | April 2014 |
| California Conference of Arson Investigators Bay Area Round Table Course <i>Anatomy of a Wrongful Arson Conviction</i> | March 2014 |
| California Conference of Arson Investigators Bay Area Round Table Course <i>Getting the Most Out of Your Fire Scene</i> | Oct. 2013 |
| Fire Cause Analysis Investigators Class <i>Wildland Fire Pattern Recognition Workshop</i> | July 2013 |
| Fire Cause Analysis <i>Hired as Research Associate</i> | July 2013 |

ASSOCIATIONS:

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| 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 |

DEPOSITIONS:

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| Delta Saloon, Inc., vs. Amerigas Propane, Inc.; Case No. 3:19-cv-00748-RCJ-CSD; | Aug 9, 2023 |
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