

## 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 for these cases.
- 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 300 solo origin and cause fire investigations.

#### EDUCATION & CERTIFICATIONS:

PE Certification California, License# M 40120 <i>Board for Professional Engineers, Land Surveyors and Geologists</i>	<b>July 2020</b>
PE Examination <i>Passed Professional Engineering Exam for Mechanical Engineers</i>	<b>April 2019</b>
Certified Fire & Explosion Investigator <i>National Association of Fire Investigators</i>	<b>March 2016</b>
Registered Engineer in Training <i>Board for Professional Engineers, Land Surveyors and Geologists CA Certificate No. EIT 157113</i>	<b>Dec. 2015</b>
Mechanical Engineering, Bachelor of Science <i>University of California, Berkeley</i>	<b>June 2003</b>
Film and Digital Media, Bachelor of Arts <i>University of California, Santa Cruz</i>	<b>July 2001</b>

#### FIRE INVESTIGATION - FORENSICS - FIRE SCIENCE & ENGINEERING

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## PROFESSIONAL DEVELOPMENT:

Safety Unlimited, Inc.: Online Training <i>Asbestos Awareness</i>	Oct. 2024
Safety Unlimited, Inc.: Online Training <i>Lead Awareness for General Industry</i>	Oct. 2024
Fire Cause Analysis: Webinar; John White <i>Third Quarter Fire Investigator's Meeting; 2 hrs. Tested</i>	Sept. 2024
Fire Cause Analysis: Webinar; John White and Sally Noma <i>Spoliation and the Claims Adjuster; 2 hrs. Tested</i>	June 2024
Fire Cause Analysis: Webinar; Geoff Hazard <i>Second Quarter Fire Investigator's Meeting; 3 hrs. Tested</i>	May 2024
Fire Cause Analysis: Webinar <i>Fire Pattern Analysis and the Claims Adjuster; 2 hrs. Tested</i>	Feb. 2024
ATF Training in L.A. <i>Origin Matrix; Smoking Materials as Ignition sources; 16 hrs. Tested</i>	Jan. 2024
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 &amp; 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 &amp; Subrogation</i>	May 2021

Cozen O'Connor: Webinar <i>Forensic Analysis of Fire Caused by Improper Fireplace Installation</i>	<b>April 2021</b>
Cozen O'Connor: Webinar <i>Rechargeable Subrogation</i>	<b>Feb. 2021</b>
Fire Cause Analysis: Webinar; John White <i>Evidence and Engineering; 2.75hrs</i>	<b>Feb. 2021</b>
Fire Cause Analysis: Webinar; Ulises Castellon <i>Fire &amp; Explosion Investigations That Sizzle; 2hrs</i>	<b>Jan. 2021</b>
Cozen O'Connor: Webinar <i>Product(ive) Subro Claims</i>	<b>Nov. 2020</b>
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>	<b>Oct. 2020</b>
Arson Investigators Subrogation Webinar Series <i>The New Impact: NFPA 921, 2021 Ed. and NFPA 1033 2022 Ed.</i>	<b>Sept. 2020</b>
Fire Cause Analysis <i>Promoted to Mechanical Engineer</i>	<b>July 2020</b>
Fire Cause Analysis Investigator Meeting: <u>Co-Presenter</u> <i>Evidence Collection, Documentation, and Dryer Fires; 2hrs. Tested</i>	<b>May 2019</b>
Cal-OSHA FIT (Terracon) <i>Respirator FIT Tested</i>	<b>Aug. 2018</b>
Cal-OSHA CCR (Terracon) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	<b>Aug. 2018</b>
Great Lakes Analytical: Webinar <i>Evidence Collection and Laboratory Testing</i>	<b>Nov. 2017</b>
Cozen O'Connor: Webinar <i>Fireplace and Chimney Subrogation: Common Claims and Recovery</i>	<b>Oct. 2017</b>
Cal-OSHA CCR (Argus Pacific) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	<b>Aug. 2017</b>
Fire Cause Analysis: Hal Lyson, CFI <i>NFPA 921 2017 Ed. Updates: 1 hr. Tested class</i>	<b>April 2017</b>
Cozen O'Connor: Webinar <i>Ventilation Fan Fires: Was the Ignition Inside or Outside the Fan?</i>	<b>March 2017</b>
Berkeley City Commons Club: <u>Co-Presenter</u> <i>Introduction to Fire Investigation</i>	<b>Feb 2017</b>
Fire K9.org: David Brien, EFI Global and John Dehaan <i>Arson Investigation Update: 4 hrs. Tested class</i>	<b>Oct. 2016</b>
IAAI North Dakota Chapter: <u>Co-Presenter</u> Tested Class <i>Fire Modeling: Tools for Fire Investigation and Testing the Hypotheses</i>	<b>July 2016</b>

Cozen O'Connor: Webinar <i>Lithium Battery Losses and Subrogation Issues</i>	<b>March 2016</b>
San Diego Fire-Rescue Dept – Metro Arson Strike Team <i>Ignition, Self-heating, and Spontaneous Combustion</i>	<b>March 2016</b>
Fire Cause Analysis <i>Promoted to Engineer Associate</i>	<b>March 2016</b>
Cal-OSHA CCR (RGA Environmental) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness</i>	<b>June 2015</b>
Sacramento-Sierra Regional Arson Task Force <i>Forensic Photography</i>	<b>April 2015</b>
Fire Cause Analysis Quarterly Investigator Meeting <i>1033 JPR's: Sword or Shield? and A Simple Kitchen Fire (Or Not)?</i>	<b>March 2015</b>
Cozen O'Connor: Webinar <i>Expert Challenges and the Revised NFPA 1033</i>	<b>Dec 2014</b>
US Dept. Justice - Bureau of Alcohol, Tobacco, Firearms, and Explosions <i>Advanced Electrical Fire Investigation</i>	<b>Sept 2014</b>
Cal-OSHA CCR (RGA Environmental) <i>1hr. Lead Awareness; 2hrs. Asbestos Awareness; 1hrs. Hazard Comm from Fire Scene Toxins</i>	<b>June 2014</b>
California Conference of Arson Investigators Bay Area Round Table Course <i>Crime Scene Investigation at Fire Scenes</i>	<b>April 2014</b>
California Conference of Arson Investigators Bay Area Round Table Course <i>Anatomy of a Wrongful Arson Conviction</i>	<b>March 2014</b>
California Conference of Arson Investigators Bay Area Round Table Course <i>Getting the Most Out of Your Fire Scene</i>	<b>Oct. 2013</b>
Fire Cause Analysis Investigators Class <i>Wildland Fire Pattern Recognition Workshop</i>	<b>July 2013</b>
Fire Cause Analysis <i>Hired as Research Associate</i>	<b>July 2013</b>

## **ASSOCIATIONS:**

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

## **DEPOSITIONS:**

Yevgeniy Dukhovny, Leonid Samoylovich aka Joseph Dukhovny,  
and Faina Karasina vs. Essex Property Trust, Megan Carr, Alex  
Downin, Aleksander Downin, Chefman, Inc., GE Appliance, Inc.;  
Case No. 22CV409212

**April 11, 2024**

Herrera vs. B&S Plastics dba Waterway Plastics, et. al;  
Case No. STK-CV-UPL-20200004342

**March 7, 2024**

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

**Aug 9, 2023**