



## Advanced Engineering Investigations

### **MATTHEW G. STRADER, BS, CFEI**

Mr. Strader is a recent graduate from the Fire, Arson and Explosion Investigation program at Eastern Kentucky University. He is proficient in the use of NFPA 921 and 1033 and has hands-on experience working on dozens of fire investigations. Additionally, he has completed extensive research with professors at Eastern Kentucky University related to the application of fire investigation science and methodology. Mr. Strader is a member of the National Fire Protection Association, the National Association of Fire Investigators, and the International Association of Arson Investigators.



### **LICENSURE & EDUCATION**

BS, Fire, Arson and Explosion Investigation, Eastern Kentucky University, 2019

Certified Fire and Explosion Investigator (CFEI), 2019

Remote Pilot Certificate (Part 107) - Unmanned Aircraft System (UAS), Federal Aviation Administration, 2019

### **WORK HISTORY**

Fire Investigator, *AEI Corporation*, 2020-Present

Fire Investigation Intern, *AEI Corporation*- Summer 2019

Fire Science Tutor/Peer Mentor, *Eastern Kentucky University-Student Success Center*, 2018-2019

Fire Investigation Intern, *Forensic Investigations Group*, Summer 2019

Fire Investigation Intern, *Forensic Investigations Group*, Summer 2018

### **EXPERIENCE**

Mr. Strader served as a lead tutor during his time at Eastern Kentucky University. He tutored a wide breadth of subjects, with a focus on fire investigation courses. He also served as a peer mentor, helping other students set and accomplish their personal and academic goals. Through coursework at ECU, Mr. Strader investigated numerous full-scale fire and explosion scenes, gained experience in failure analysis, and conducted research regarding the effects of heat on receptacle receiver spacing. He co-authored a report on the findings of the research.

In addition to his university course work and leadership roles, Mr. Strader has valuable experience from multiple internships and professional training conferences. He has investigated and assisted investigators on dozens of fire scenes, ranging from small residential fires to commercial restaurants. He also assisted in various testing and product recall projects.

### **AWARDS & ACCOMPLISHMENTS**

Graduated Cum Laude, Eastern Kentucky University, 2019

Eastern Kentucky University Dean's List Fall 2016-Fall 2019

### **PUBLICATIONS**

Strader, M., Borth, T., Gorbett, G, *The Effects of Heating on Receiver Spacing: With and Without the Presence of Plug Blades*, Eastern Kentucky University, Richmond, KY (2019).

### **AFFILIATIONS**

*National Fire Protection Association (NFPA)*

*International Association of Arson Investigators (IAAI)*

*National Association of Fire Investigators (NAFI)*