

## Ryan T. Allaire, PE | District Manager

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### Professional Summary:

Mr. Allaire currently supervises the Southwest District. His duties and expectations include, but are not limited to: hiring and retention, technical expertise, financial performance, operating detail, and business development. Mr. Allaire provides leadership and oversight of origin and cause operations, forensic engineering services, quality, safety, and business development for the District which includes Arizona, Colorado, New Mexico, Utah, and Wyoming.

Mr. Allaire has been involved in fire investigations and water loss investigations. His involvement in these cases ranges from investigative assistant to lead engineer. He has investigated arson, appliance failures, electrical fires, HVAC failures, and vehicle fires. For water loss investigations he has investigated appliance failures, installation defect, product defects, plumbing, and freeze failures.

Prior to working for EFI Global, he was in test engineering for Raytheon Company, Space and Airborne Systems. This exposed him to various aspects of engineering. He designed, integrated, and performed tests for power supplies and converters, digital electronics, analog to digital converters, and optical systems. His role as a test engineer was to develop test equipment designed from test methods developed from prime hardware design requirements. The development of the test hardware involved the design, manufacture, software (for automated testing), and integration of equipment with prime hardware, troubleshooting of anomalies and failures of test equipment and prime hardware, and validation of the test equipment according to hardware design specifications.

As a technical intern at Maxtor Corporation, Mr. Allaire was responsible for performing firmware and software testing of hard drives in varying computer hardware configurations. This required knowledge of the hardware and software being tested and the ability to troubleshoot any anomalies and failures.

### Licenses and Certifications:

Certified Fire Investigator and Explosion Investigator (CFEI) – National Fire Investigators Association; current since 2009; Registration #14568-7436

Professional Engineer, Arizona, 51713

Professional Engineer, California, 23442

Professional Engineer, Colorado, PE 44231

Professional Engineer, Kansas, 21649

Professional Engineer, Louisiana, 38471

Professional Engineer, Michigan, 6201063993

#### Licenses and Certifications (Continued):

Professional Engineer, Missouri, PE-2015022297  
Professional Engineer, Montana, 19974  
Professional Engineer, Nebraska, E-15140  
Professional Engineer, Nevada, 022063  
Professional Engineer, New Mexico, 20186  
Professional Engineer, North Dakota, PE-9224  
Professional Engineer, Oklahoma, 26737  
Professional Engineer, Rhode Island, 13453  
Professional Engineer, Texas, 108208  
Professional Engineer, Utah, 7773932-2202  
Professional Engineer, Wyoming, PE 12866

#### Professional Experience:

EFI Global, Inc., District Manager, 2018 - Present  
Unified Investigations & Sciences, Inc., District Manager, 2013 - 2018  
Unified Investigations & Sciences, Inc., Engineering Manager, 2012 –2013  
Phoenix Laboratory and Engineering Services, Forensic Electrical Project Manager/Engineering Manager, 2009 - 2012  
Raytheon Company, Sr. Systems Engineer, 2004 – 2009  
Maxtor Corporation, Technical Intern, 2003

#### Specialized Education:

Forensic Engineering Seminar, National Academy of Forensic Engineers, 2020  
Historical Development of Fire Codes, Vale Training, 2019  
Forensic Engineering Seminar, National Academy of Forensic Engineers, 2019  
Timelines as an Analytical Tool, Vale Training, 2019  
Ethical Issues in Forensic Engineering, CPE Solutions, LLC, 2018  
Advanced Ethics for the Texas Professional Engineer, CPE Solutions, LLC, 2018  
Annual Training Conference, IAAI Colorado Chapter, 2017  
Unified Investigations & Sciences, In-Service Webinar Series, Essentials of NFPA 1033, 2016-2017  
International Code Council Colorado Chapter, 2014 National Electrical Code Wiring Methods, 2016  
Ethics & Social Media, CFITrainer.net/IAAI, 2016  
Investigating Motor Vehicle Fires, CFITrainer.net/IAAI, 2016  
Basic Electricity, CFITrainer.net/IAAI, 2015  
Electrical Safety, CFITrainer.net/IAAI, 2015  
NFPA 921 and 1033 2014 Editions: Important Revisions, CFITrainer.net/IAAI, 2014

### Specialized Education (Continued):

CPE Solutions, LLC, PE Professionalism and Ethics, 2015  
CPE Solutions, LLC, Electrical Distribution Systems, 2015  
Vaisala, Introduction to Lightning Webinar, 2015  
OTS, Hazmat First Responder Operations Training, 2015  
CPE Solutions, LLC, Ethical Issues in Forensic Engineering, 2014  
CPE Solutions, LLC, Texas Engineering Practice Act and Rules, 2014  
Unified Investigations and Sciences, Inc., OSHA 29 CFR 1910.1200-Globally Harmonized System of Classification and Labeling of Chemicals, 2014  
NFPA 921 and The Daubert Expert, Brian Henry, Esq., Unified In-Service Training, Atlanta, Georgia, 2013  
NTFIA – Meeting NFPA 921 and 1033 Fire Investigation Challenge, 2013  
Unified Investigations & Sciences, Inc. – Investigations, 2013  
NASP Electrical Arcing and Fires, 2012  
IRIS Fire Investigations – Expert Report Writing, 2012  
PDHengineer – Engineering Ethics: Accepting Gifts and Amenities, 2011  
PDHengineer – Engineering Ethics: Case Study of Goodrich’s A7D Light Attack, 2011  
PDHengineer – Engineering Ethics: The Kansas City Hyatt Walkway Collapse, 2011  
NASP (Florida) – Improving Recoveries by Understanding the Investigation of the Electrically-Caused Fire, 2011  
IRIS Fire Investigations – Principles and Practices of Fire Investigations, 2011  
Fire Findings – Investigation of Gas and Electric Appliance Fires, 2011  
NASP (Minnesota) – When Lightning Strikes... You May Have A CSST Failure, 2011  
IRIS Fire Investigations – Wildland Fire Investigations, 2011  
Environmental Training & Consulting – EPA/AHERA Training Course for Operations & Maintenance, 2011  
NCEES – Principals and Practice of Engineering Examination, Electrical Computer – Power, 2010  
Arc Mapping Basics, CFITrainer.net/IAAI, 2010  
Post flashover Fires, CFITrainer.net/IAAI, 2010  
The Scientific Method for Fire and Explosion Investigation – CFITrainer.net/IAAI, 2010  
NCEES – Fundamentals of Engineering Examination, 2009  
National Fire, Arson & Explosion Investigation Training Program, 200  
NAFI - Certified Fire and Explosion Investigator, 2009  
Environmental Solutions – Lead Hazards Awareness Course  
Environmental Solutions – Asbestos Awareness Training Program, 2009  
NCEES – Fundamentals of Engineering Examination, 2009  
Failure Reporting and Corrective Action System, 2008  
Foreign Object Elimination Training, Annually 2007 – 2008  
Space Hardware Certification Training, Annually 2007 – 2008  
Clean Room Certification, Annually 2006 – 2008

### Education:

Bachelor of Science, Engineering with Electrical Specialty, Colorado School of Mines, Golden, Colorado