

## PROFESSIONAL SUMMARY

- Bachelor of Science in Biology, Spring Hill College, Mobile, AL 2001
- Primary responsibilities include assisting with site examinations, including residential, commercial, and industrial fire losses. Additional duties include site documentation, evidence collection and preservation, preparation of full scale and reduced scale testing and data gathering, computer aided design reconstruction and presentation of facilities (AutoCAD), and preparation of scaled demonstrative litigation presentations.
- Other responsibilities include assisting with insurance related claims, weather analysis, and research for litigated related cases involving Residential and Commercial construction, plumbing, foundation and roof inspections related to construction defect, water intrusion/damage and foundation failure/deflection analysis.

## EMPLOYMENT RECORD

- 2021-Present **MCDOWELL OWENS ENGINEERING, INC.**  
Houston, Texas Digital Media Manager & Technician Areas of primary interest include digital storage management, and creator of mixed media. Responsibilities include assisting engineers and fire scientists with documentation and evidence preservation, preparing computer aided design presentations as well as constructing and preparing full and reduced scale demonstrations, testing, and data acquisition.
- 2003-2021 **THE JOY SCHOOL**  
Houston, Texas Learning Specialist & Videographer 18 years of videoing and cataloging events for the school. Taught middle school science, created unique curriculum for students, and ran the science lab.
- 2001-2003 **DUGAS & ASSOCIATES, LLC**  
Denver, Colorado Legal Clerk, Researcher, Managed day-to-day operations, including receiving and organizing correspondence, drafted manuals and resources for identifying access to services, and reduced financial discrepancies by accurately managing accounting documentation while maintaining case costs and billing processes. Documented and supervised depositions for attorneys. Handled sensitive evidence and correspondence between county courts.

- 2000-2001 **WEEKS BAY NAT. ESTUARINE RES. RESERVE**  
Weeks Bay, AL Research Scientist, Intern Assisted in writing, editing, and creating their 5- Year Mission Statement for the Environmental Protection Agency. Developed and implemented programs for monitoring environmental pollution and water hazards. Conducted field tests to monitor local tributaries for a multitude of streams filtering into the Mobile Bay. Conducted mercury tests on tanker ships bilge systems in Mobile Bay Ship Channel. Helped to run Weeks Bay lab for testing and educational purposes.

## EDUCATION

- Bachelor of Science, Biology  
| Spring Hill College, Mobile, Alabama 2001

## CONTINUING EDUCATION

- Investigating Motor Vehicle Fires Course by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), January 2023
- Explosion Dynamics by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), August 2022
- Ethics and the Fire Investigator by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), August 2022
- Effective Investigation and Testimony by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), August 2022
- Digital Photography and the Fire Investigator by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), August 2022
- The Scientific Method for Fire and Explosion Investigation Course by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), July 2022
- Writing the Initial Origin and Cause Report by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), July 2022
- Physical Evidence at the Fire Scene Course by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), July 2022

- Critical Evaluation and Testing of Commonly Reported Accidental Causes by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), July 2022
- How First Responders Impact The Fire Investigation by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), March 2022
- Fire Investigator Scene Safety by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), March 2022
- Fire Flow Analysis by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), March 2022
- Documenting the Event Course by CFITrainer.net, in conjunction with The International Association of Arson Investigators, Inc. (IAAI), March 2022

## PROFESSIONAL MEMBERSHIPS

- Affiliation National Association of Fire Investigators - Company
- Affiliation National Fire Protection Association - Company

## RESEARCH & TESTING

- Testing of various gas valves using X-Ray and gas flow tests.
- Compressed natural gas and liquefied petroleum fuel gas fire and explosion testing and investigation.
- The reaction of specific appliances to various fire origins within the appliance as well as exterior.
- Research and testing fuel gas regulators.