



## **CHRISTOPHER J. PORTO, P.E., C.F.E.I** **SENIOR CONSULTANT**

[cjporto@engsys.com](mailto:cjporto@engsys.com)

Mr. Chris Porto is a Senior Consultant for Engineering Systems Inc. (ESi). Mr. Porto has been working in the fire protection and mechanical engineering industry since 2011, successfully completing a wide range of project types for a diverse client base. He is a licensed fire protection and mechanical engineer in multiple states. His fire protection engineering expertise includes assessment of building life safety features, code compliance evaluations, fire suppression/extinguishing system failure analyses, and fire alarm system design and integration. In addition to his knowledge involving fire protection systems, he has expertise in fire dynamics and mechanical systems involving fires within structures and heavy machinery. Mr. Porto's mechanical expertise also includes performing mechanical and electrical building system evaluations and origin and cause investigations related to mechanical systems including HVAC and plumbing.

Mr. Porto has worked as a lead mechanical and fire protection engineer in the design of military and private facilities. His experience includes design, testing, inspection, and commissioning for Navy, Air National Guard, Air Force, Army, Customs and Border Protection, State, and private facilities. His design experience also includes the application of performance-based fire and smoke modeling for approval of alternative life safety means and methods.

### **Areas of Specialization**

#### **Fire Protection:**

- Fire Suppression System Design
- Kitchen Suppression Systems (Dry and Wet Chemical Extinguishing Systems)
- Clean Agent Fire Extinguishing Systems
- Inspection, Testing, and Maintenance of Fire Protection Systems
- Commissioning of Fire Protection Systems
- Fuel Farm Fire Protection Systems
- Fire Alarm and Mass Notification System
- Wet/Dry-Pipe Sprinkler Systems
- Pre-Action Sprinkler Systems
- High and Low-Expansion Foam Fire Extinguishing Systems
- Fire Pump Facilities
- Smoke Control Systems
- Fire and Smoke Modeling
- Performance Based Design
- NFPA, ICC, FM Global, UFC and ETL Codes & Standards
- Aircraft Hangar Facilities
- Distribution and Fulfillment Centers Facilities
- Lithium-Ion battery manufacturing and storage facilities
- Commodity Assessment
- Origin and Cause

*January 2023*



**Mechanical:**

Chiller Water Systems  
Chillers and Absorption Chillers  
Cooling Towers  
DX (Direct Expansion) Systems and VRF (Variable Refrigerant Flow)  
Boilers and Furnaces  
Underground Piping  
Hydronic and Plumbing Piping Systems  
Heavy Machinery

**Education**

University of Maryland – College Park, Maryland  
M.Eng. in Fire Protection Engineering, 2019  
Auburn University – Auburn, Alabama  
B.S. in Mechanical Engineering, 2011  
Business Administration minor

**Licensed Professional Engineer (P.E.)**

State of Alabama.....License No. 35376-E  
State of Florida.....License No. 79824  
State of Georgia.....License No. PE039960  
State of Kentucky.....License No. 31194  
State of South Carolina.....License No. 32753  
State of New York.....License No. 96266  
State of North Carolina.....License No. 43436  
State of Mississippi.....License No. 26743  
State of Louisiana.....License No. 40200  
State of West Virginia.....License No. 22057  
State of New Jersey.....License No. 24GE05343400  
State of Tennessee.....License No. 119915  
State of Ohio.....License No. 84040  
State of Maine.....License No. 16258  
State of Minnesota.....License No. 59758  
State of Missouri.....License No. 2023000154  
NCEES.....License No. 1290229

**Training & Certifications**

NAFI Certified Fire and Explosion Investigator (CFEI)  
OSHA 30 Training (Construction Safety)  
ANSUL Foam Systems Service & Maintenance  
SPP Pump Fire Pump Training – NFPA 20

**Professional Affiliations/Honors**

ACEC Future Leaders Program, Graduating Member 2014  
International Association of Arson Investigators (IAAI)  
National Association of Fire Investigators (NAFI)  
National Fire Protection Association (NFPA)  
Society of Fire Protection Engineers (SFPE)



### **Other Capabilities**

Experience in the following industries: forensics, fuel farms, military facilities, commercial building construction, and water distribution facilities.

Computer Skills: CONTAM, FDS, HASS, Pathfinder, PyroSim, Kentucky Pipe Water Modeling, Carrier HAP, Trane Trace, BLCAA, and EnergyPro.

CAD/Design Packages: AutoCAD, Revit, ANSYS, Solid Edge, and Mechanical Desktop Inventor.



## **Positions Held**

### **Engineering Systems Inc. Norcross, Georgia**

Senior Consultant, July 2022 to present

### **Harrington Group Inc. Duluth, Georgia**

Senior Fire Protection Engineer and Associate Project Manager, June 2020-June 2022

### **Engineering Systems Inc. Norcross, Georgia**

Senior Consultant, July 2019 to June 2020

Senior Staff Consultant, January 2019 to June 2019

Staff Consultant, January 2017 to December 2018

### **PT&C | LWG Atlanta, Georgia**

Fire Protection & Mechanical Project Engineer, January 2015 to December 2016

### **Pond & Company Norcross, Georgia**

Fire Protection Engineer, June 2011 to January 2015

### **Kaydon Filtration LaGrange, Georgia**

Full-Time Co-Op, Summer 2008, Spring 2009, Spring 2010

## **Presentations**

“Overview of Fire Suppression Systems, Fire Alarm Systems, and Building Code and Life Safety Evaluations,” half-day seminar for fire investigators, October 2018

“Anatomy of a Mega Claim: Too Large to Fail,” Considerations unique to handling major losses, presentation at The Claims and Litigation Management Southeast Conference, November 2017

“Fire Sprinkler System Failure Investigations,” Fundamentals and failure investigations of fire-sprinkler and chemical extinguishing systems, webinar hosted by National Association of Subrogation Professionals, December 2016

“How to Identify & Adjust Lightning Damage Losses,” Understanding the effects of lightning and equipment susceptibility to lightning damage, Presentation to Engle Martin & Associates, Inc., June 2016

“Fire Alarm and Fire Sprinkler System Failure Investigations,” A hands-on seminar that discussed common fire-sprinkler system failures and fire alarm fundamentals, PT&C|LWG Educational Event, May 2016

“Fire Suppression Systems, Information Every Property Adjuster Should Know,” Review of common fire protection systems and associated codes and standards, Presentation to RSUI Group, January 2016