



CHRISTOPHER J. PORTO, P.E., C.F.E.I
SENIOR MANAGING CONSULTANT
DIRECTOR OF THERMAL SCIENCES

cjporto@engsys.com

Mr. Chris Porto is a Senior Managing Consultant for Engineering Systems Inc. (ESi). Mr. Porto has extensive experience in the fire protection and mechanical engineering industry, 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 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 investigations of structures and heavy machinery

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
Fireplace and chimneys

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 Louisiana	License No. 40200
State of Maine	License No. 16258
State of Minnesota	License No. 59758
State of Mississippi	License No. 26743
State of Missouri	License No. 2023000154
State of New Jersey	License No. 24GE05343400
State of New York	License No. 96266
State of North Carolina	License No. 43436
State of Ohio	License No. 84040
State of South Carolina	License No. 32753
State of Tennessee	License No. 119915
State of West Virginia	License No. 22057
NCEES ID	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
Technical presenter and trainer for the Alpharetta Fire Department on fire alarm systems

Professional Affiliations/Honors

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, 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

Director of Thermal Sciences, September 2025 to present

Senior Managing Consultant, January 2025 to present

Senior Consultant, July 2022 to December 2024

Harrington Group Inc. Duluth, Georgia

Senior Fire Protection Engineer and Associate Project Manager, June 2020 to 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

"An Ounce of Prevention (Fire Suppression Detection and Fire Spread)" Technical presentation of fire sprinkler system application in limiting fire spread, MLL Chicago Fire Summit, July 2024

"Introduction of Fire Alarm Systems During Emergency Response" Multiple day hands-on training seminar for the Alpharetta Fire Department involving fire alarm systems, May 2024

"Fire Alarm System Basics", full-day hands-on seminar for fire investigators and code inspectors, Georgia Fire Investigators Associations, March 2024

"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