

ONSITE

ENGINEERING

JOHN P. FONDER
Registered Professional Engineer

- Registration:** Licensed Professional Engineer
State of Minnesota, 2020
- Education:** BS in Mechanical Engineering - 2015
University of Minnesota, Duluth, MN
- United States Air Force Reserves (E-4)
Structural Engineering Apprenticeship – 2013
- Certifications:** Fire Sprinkler Inspection Training & Certificate Program
Oklahoma State University, Stillwater, OK - 2018
- Certified Gas Engineer - 2017
- Continuing Education:** Hazwoper Refresher Training 29 CFR.1910.120 Class,
12/19, 8 Hours
- Whitemore Fire Consultants “A Look Under the Covers”
Seminar, 11/19, 6 Hours
- South Dakota Claims Seminar, 5/19
- Minnesota Chapter of IAAI “Fire & Arson Investigation”
Conference, 3/19
- Hazwoper Refresher Training 29 CFR.1910.120 Class,
11/18, 8 Hours
- Whitemore Fire Consultants “Warning! This is a Test”
Seminar, 10/18
- NAFI “International Symposium on Fire Investigation
Science & Technology”, 9/18, 3 days

Fire Sprinkler Inspection Training & Certificate Program, Oklahoma State University & American Fire Sprinkler Assoc, 5/18, 24 Hours

Minnesota Chapter of IAAI "Fire & Arson Investigation" Conference, 3/18

City of Aurora, CO Public Safety Training Center, "Advanced Principles of Fire Dynamics", 2/18, 24 Hours

"Understanding Common Water Losses" Cozen O'Connor webinar, 1/18
Hazwoper Refresher Training 29 CFR.1910.120 Class, 11/17, 8 Hours
1st Aid, CPR, BBP and AED training, 11/17

Asbestos Awareness Training, 11/17

Confined Space Entry & Rescue Training, 11/17
NSPE-MN "OSHA & NFPA70E Based Electrical Safety in the Workplace", 2 hours, 11/17
Whitemore Fire Consultants "Handling 1st & 3rd Party Subrogation & Liability Claims" Seminar, 9/17

Minnesota Chapter of IAAI "Fire Investigation" Conference, 3/17

"Alternative Fuel Vehicles Safety Training", NFPA/IAAI training program, 8 hours, 3/17

IAAI webinar "One Dimensional vs Two-Dimensional Fire Investigation Experts", 2/17

Hazwoper Refresher Training 29 CFR.1910.120 Class, 11/16, 8 Hours

NAFI's International Symposium on Fire Investigation Science & Technology Conference, 9/16

Whitemore Fire Consultants "In the Beginning...Building a Subrogation Case" Seminar, 7/16

Fire Investigation, Research & Education Service "Certified Fireplace & Chimney Inspector", 5/16

Fire Investigation, Research & Education Service
“Fireplace & Chimney Inspection Program”, 48 hours,
5/16

Minnesota Chapter of IAAI “Fire & Arson Investigation”
Conference, 20 hours, 3/16

Hazwoper Certification, 40 hours, 12/15

Wisconsin Chapter of IAAI’s Annual Fire and Arson
Investigative Conference “Annual Fall Seminar”,
20 hours, 10/15

Iowa Chapter of IAAI’s Annual Fire and Arson
Investigative Conference, 19.25 hours, 9/15

“A Ventilation-Focused Approach to the Impact of
Building Structures and Systems on Fire Development”,
IAAI’s CFI Trainer course, 4 Hours

Minnesota Propane Association, Design & Install of
Exterior Vapor Distribution Systems, 8/15

“Arc Mapping Basics”, IAAI’s CFI Trainer course,
4 Hour

“Digital Photography and the Fire Investigator”, IAAI’s
CFI Trainer course, 4 Hours

“Documenting the Event”, IAAI’s CFI Trainer course,
4 Hours

Minnesota Propane Association, Basic Principles and
Practices of Propane, 16 Hours 7/15

“Effective Investigation and Testimony”, IAAI’s CFI
Trainer course, 3 Hours

“Electrical Safety”, IAAI’s CFI Trainer course, 3 Hours

“Evidence Examination: What Happens at the Lab?”,
IAAI’s CFI Trainer course, 4 Hours

“Explosion Dynamics”, IAAI’s CFI Trainer course,
4 Hours

“Fire Dynamics Calculations – Version 2.0”, IAAI’s CFI Trainer course, 4 Hours

“Fire Protection Systems”, IAAI’s CFI Trainer course, 3 Hours

“Introduction to Fire Dynamics and Modeling”, IAAI’s CFI Trainer course, 4 Hours

“Investigating Motor Vehicle Fires”, IAAI’s CFI Trainer course, 4 Hours

“Investigating Natural Gas Systems”, IAAI’s CFI Trainer course, 3 Hours

“Physical Evidence at the Fire Scene”, IAAI’s CFI Trainer course, 4 Hours

“Postflashover Fires”, IAAI’s CFI Trainer course, 4 Hours

“Process of Elimination”, IAAI’s CFI Trainer course, 3 Hours

“Residential Natural Gas Systems”, IAAI’s CFI Trainer course, 3 Hours

“The Scientific Method for Fire and Explosion Investigation”, IAAI’s CFI Trainer course, 3 Hours

“Using Resources to Validate your Hypothesis”, IAAI’s CFI Trainer course, 2 Hours

IRC Fire Sprinkler Plan Review, Installation & Inspection, 8 Hours, Minnesota Dept. of Labor & Industry, 4/15

Experience:

**6/15 to Present OnSite Engineering & Forensic Services, Inc.,
Prior Lake, MN**

Forensic Mechanical Engineer

Perform forensic mechanical failure analysis of mechanical systems, mechanical service installations. Including analysis of motors, equipment, structures,

stress analysis, and mechanical testing of materials and components. Identify deficiencies of mechanical installations, gas installations in commercial, industrial and residential structures. Construction Equipment, Semi-tractor, and Farm Equipment failure analysis of engines, bearings and structural components.

5/14 to 9/14
5/12 to 9/12

OnSite Engineering & Forensic Services, Inc.,
Prior Lake, MN

Engineering Intern

Support engineers with site investigation and laboratory examinations. Process large industrial and commercial fire scenes. Evidence collection, processing and documentation. Designed and conducted laboratory experiments, research failures, prepare reports. Designed, specified, and installed a laboratory ventilation system for use in the artifact inspection labs.

3/13 to 8/13

The Outdoor GreatRoom Company
Eagan, MN

Mechanical Engineering Intern

Analyzed product assembly processes. Revised manufacturing processes. Improved tracking of inventory usage & material orders for optimal warehouse storage space and optimum product output. Designed and developed custom products.

9/12 to 3/13

United States Air Force -Structural Engineering School
Gulfport, MS

Structural Engineering Apprentice

Building construction projects – all aspects from the ground up; blueprint analysis, material requisition,

Presentations:

Presentation “Forensic Electrical and Mechanical Vehicle and Property Investigations” to South Dakota Claims Seminar, co-presenter, 5/19

Presentation “It’s Electrifying...Why an Electrical Engineer” to Whitmore Fire Consultants Seminar, co-presenter, 10/18

**Professional
Affiliations:**

Member National Society of Professional Engineers
Member Engineering Alliance Minnesota
Member American Society of Gas Engineers
Member International Association of Arson Investigators
Member International Association of Arson Investigators
– Minnesota, Iowa, Nebraska and Wisconsin chapters
Member National Fire Protection Association
Member American Society of Mechanical Engineer
Member Society Automotive Engineers International
Member National Association of Fire Investigators
- International
Member American Society of Heating, Refrigerating and
Air-Conditioning Engineers
Member American Society of Plumbing Engineers