

ONSITE

ENGINEERING

JOHN P. FONDER

Mechanical Engineer

Education: BS in Mechanical Engineering - 2015
University of Minnesota, Duluth, MN
Structural Engineering Apprenticeship – 2013
United States Air Force Reserves (E-4)

Certifications: Certified Gas Engineer - 2017

Continuing Education: 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 **OnSite Engineering & Forensic Services, Inc.,**
5/12 to 9/12 **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,

**Professional
Affiliations:**

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