



# RESUME OF CARL P. ANDERSON, P.E.

## SUMMARY

Registered Professional Engineer with 17 years experience including fire protection system design, review and inspection. Experienced in building plan review and inspection for compliance with fire code, non-structural provisions of building and life safety codes, and numerous fire protection standards.

## PROFESSIONAL EXPERIENCE

### **MDE Inc. – Seattle, WA (2004 to Present)**

Associate, Fire Protection Engineer

**Forensic Engineering:** Review of fire protection systems including suppression and detections systems, plan reviews and field inspections. Analysis of hazards, fire spread, building construction, code compliance, modeling and testing. Some specific examples include water flow tests and calculations, sprinkler system review and hydraulic calculations, fire alarms, standpipes, valves, fire pumps and controllers, smoke control systems and piping. **Consulting Engineering:** Review of fire protection strategies, systems and equipment

### **Pacific Rim Fire Code Consulting – Olympia, WA (2009 to present)**

Owner, Senior Engineer

Provides plan review, code consulting, fire protection peer review, Independent Technical Review, fire protection system plan review and specification assistance, and fire protection system failure analysis.

### **Tacoma Fire Department – Tacoma, WA (1994 to present)**

Senior Principal Fire Protection Engineer

Plan review and inspection of new and modified fire protection systems including fire sprinkler, fire alarm, standpipe, fire pump, smoke control, and other specialized systems. Plan review and inspection of new and existing buildings for fire code compliance. Analysis of existing buildings for code required improvements for re-occupancy and change of occupancy. Review and approval of alternate methods using performance-based design. Responsible for hundreds of projects ranging from small fire protection system modifications to comprehensive code analysis and inspections for various high-rise, hospital, prison, industrial, and large assembly occupancies.

### **US Army – Various locations (1991 to 1994)**

Engineer Officer

Construction Officer, Safety and Haz Mat Officer, Executive Officer and Platoon Leader. Develop and implement construction plans for a variety of projects including refugee camps at Guantanamo Bay, Cuba and US border roads and border patrol observation points. Modernized unit safety and hazardous materials procedures.

### **Firepro, Inc. – Burlington, MA (1990 to 1991)**

Fire Protection Consultant

Part of a team of engineers responsible for facility inspection, fire protection system specification and design, and forensic engineering related to fire loss.

### **Schirmer Engineer – Chicago, IL (1989)**

Fire Protection Consultant/Graduate Intern

Building inspection for fire and building code compliance. Fire protection system surveys for deficiencies and development of improvement recommendations. Fire protection system design and layout.

### **US Coast Guard, Marine Fire Research Branch – Avery Point, CT (1986)**

Fire Protection Intern Research involving enhanced methods of predicting fire propagation on Coast Guard ships and minimizing impact of fire on mission critical equipment.

Carl P. Anderson, P.E.

## PROFESSIONAL REGISTRATION & CERTIFICATION

Registered Fire Protection Engineer, State of Washington, #31714 (1994 to Present)  
Certified Uniform Fire Code Inspector (1995)

## EDUCATION & TRAINING

M.S. Fire Protection Engineering, Worcester Polytechnic Institute, Worcester, MA. (1991)  
B.S. Civil Engineering, Worcester Polytechnic Institute, Worcester, MA. (1988)  
US Army Engineer Officer Basic Course, Ft. Leonard Wood, MO. (1991)

Ongoing continuing education in fire sprinkler systems, fire alarm systems, smoke control, fire modeling, fire codes and building codes.

## PROFESSIONAL ASSOCIATIONS

Member – National Fire Protection Association (NFPA), 1994 – Present  
Member - NFPA Technical Committee for Sprinkler Discharge Criteria, 2002 – Present  
Associate Member - Society of Fire Protection Engineers (SFPE), 1994 – Present  
Member – SFPE Fire Service Committee, 2000 - 2004  
Subject Matter Expert – SFPE Licensing Committee, PE Exam, Water Based Fire Suppression Systems, 2004 – Present  
Member and Past President, Pacific NW Chapter of the SFPE, 1994 – Present  
Member – Washington State Association of Fire Marshals, 2003 – Present  
Member – International Congress of Building Officials, 1994 to 2002  
Member – International Fire Code Institute, 1994 to 2002  
Member – International Code Congress, 2003 - Present  
Member – State of WA Fire Code Technical Advisory Group, 1996 to 2003  
Chairman – Technical Advisory Board, Bates Technical College, Tacoma, WA, Fire Protection Technology program, 2004 to 2007

## PUBLICATIONS

Authored: M.S. Thesis, A Methodology for the Use of Hazard-1 in Residential Fire Investigation.  
Authored: Materials section for SFPE Short Course entitled Fire Sprinkler System Design for Engineers. Co-instructed this short course.  
Authored three chapters of NFPA/SFPE's Designer's Guide to Automatic Sprinkler Systems.

