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Brian Thompson, P.E.
Principal | Fire Protection Engineer
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SUMMARY

Brian Thompson, P.E., Founder and Principal of AEGIS Engineering, earned a master's degree in fire protection engineering from Worcester Polytechnic Institute and is a professional engineer with registration in multiple states. Brian was previously employed by fire protection engineering consultancies in Chicago and San Francisco, and has complimentary experience in firefighting, forensic investigation, and civil engineering. His depth of knowledge and breadth of experience equips him to effectively contribute toward the development of solutions to various fire protection and life safety challenges in the built environment.

Brian entered the fire protection field in 1993 and applies current engineering models and methodologies to analyze project fire protection and life safety conditions. This enables him to reach beyond prescriptive code criteria and assess tenability based on analysis of anticipated fire protection and smoke control system performance, and forecast duration of occupant evacuation. His project responsibilities include developing design strategies for project fire protection and building code approaches, evaluation of design plans for code compliance, as well as system inspection and testing. He has specific experience serving as an expert consultant in resolution of various fire and building code issues, including means of egress.

SPECIALTIES:

- Fire protection and life safety systems analysis
- Building and fire code interpretation
- Litigation support and expert consulting
- Hazardous materials activities
- Smoke control system design/special inspection
- Alternative means and methods

Brian has spoken at numerous events on various fire protection system and code topics, including the subject of smoke control at the 2008 NFPA World Safety Conference & Exposition as well as the 2018 Fire and Evacuation Modeling Technical Conference before an international audience. In 2017, Consulting-Specifying Engineer honored him as one of 40 building industry professionals nationwide age 40 and younger with demonstrated commitment to excellence in academic, professional, personal, and community involvement. His research on speech intelligibility has been published in the Journal of Fire Protection Engineering and his expertise in fire-resistive construction was cited in a trade periodical. Brian was appointed to advise the State Building Code Council for State of Washington as a Technical Advisory Group member regarding amendment and adoption of the 2009 and 2015 Editions of the International Fire and Building Codes, respectively. From 2018-2023 he served the international Society of Fire Protection Engineers (SFPE) as a member of the Public Policy Task Group with the SFPE Committee on Professional Qualifications and was active on the Engineering Practice Subcommittee. He currently serves on the Washington State Labor and Industries (LNI) Elevator Safety Advisory Committee where he chairs the Fire Door Subcommittee.

When he isn't at work, Brian's greatest joy comes from spending time with his wife and their four kids. He and his family try to take full advantage of the variety of outdoor activities available in the great Pacific Northwest playground including alpine skiing in the winter and water skiing on Hood Canal in the summer.

**Fire Protection • Building Code
Consult • Design • Engineer**

EDUCATION

- **Society of Fire Prot. Engineers, Honolulu, HI**
Advanced Fire Dynamics Simulator (2018)
- **California Emergency Management Agency**
ATC-20 and 45 EMA Safety Assessment Program (2011)
- **University of Washington, Seattle, WA**
Cold Regions Engineering (2011)
- **US Green Building Council, Berkeley, CA**
LEED-NC Technical Review (2005)
- **Worcester Polytechnic Inst., Worcester, MA**
M.S., Fire Protection Engineering (2004)
- **International Fire Service Accreditation Congress, Bainbridge Island, WA**
Fire Service Instructor I (2001)
- **Marquette University, Milwaukee, WI**
B.S., Civil Engineering (2000)
- **Protection Knowledge Concepts, Chicago, IL**
Automatic Sprinkler System Design and Water System Analysis (1998)

REGISTRATIONS

- **Fire Protection Engineer**
Alaska, California, Idaho, Oregon, Washington
- **Professional Engineer**
Colorado, Hawaii, Montana

EXPERIENCE

Arena Fire Alarm Testing
Seattle, WA

Contract Plan Review and Inspection
Multiple Municipalities

Hazardous Waste MRW/RCRA
Multiple Facilities

Marriott Hotel
Redmond and SeaTac, WA

Mission Ridge Expansion
Wenatchee, WA

Overlake Medical Center
Bellevue, WA

Residential, Multi-Use and Office Buildings
Throughout Pacific Northwest

SEA Airport (multiple)
SeaTac, WA

Skagit County Justice Center
Mount Vernon, WA

Sound Transit Stations and ROW
Bellevue, Everett and Tacoma, WA

UW Capital Projects (multiple)
Seattle, WA

WA State DES Helen Sommers Building
Olympia, WA

Western US Military/DoD Installations
Air Force, Army, Coast Guard, Navy

Westfield Southcenter Mall
Tukwila, WA

AFFILIATIONS

- Cal EMA Safety Assessment Program (SAP) Evaluator
- International Code Council (ICC) Professional Member
- National Fire Protection Association (NFPA), Architects, Engineers and Building Officials (AEBO) Section
- Salamander Honorary Fire Protection Engineering Society, Gamma Chapter
- Society of Fire Protection Engineers (SFPE), Public Policy Task Group (2018-2023), and PNW Chapter Member
- Washington State Building Code Council, 2009 IFC and 2015 IBC, Technical Advisory Group Member
- Washington State Labor and Industries Elevator Safety Advisory Council (ESAC) Member

The Mission of AEGIS Engineering is to deliver thoughtful, innovative Fire Protection Engineering solutions that balance the needs of all stakeholders while supporting Client success.