



#### EDUCATION

- Southwestern University
  - Bachelor of Science, Physics, 2011
- California Polytechnic University, San Luis Obispo
  - Master of Science, Fire Protection Engineering, 2017

#### PRACTICE AREAS

- Smoke Control System Design
- Fire Modeling/Alternate Design
- Wildland-Urban Interface Evaluation
- Fire Protection and Building Code Consulting
- HAZMAT Code Consulting

#### PROFESSIONAL AFFILIATIONS

- Society of Fire Protection Engineers - San Diego Chapter

#### CONTACT

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#### EXPERIENCE

Garth Ornelas has experience in a wide variety of occupancies. His work includes building and fire code analysis, performance-based design, fire protection/detection system consulting, fire modeling, and wildland fire analysis.

#### REPRESENTATIVE PROJECTS

##### Smoke Control System Design

- Pechanga Hotel High-Rise - Temecula, CA: Smoke control system rational analysis report, smoke control plans, and tenability analysis\*
- 1669 North Reno High-Rise - Reno, NV: Smoke control system rational analysis report\*
- Manchester Pacific Gateway - San Diego, CA: Smoke control system rational analysis report and tenability analysis\*

##### Fire Modeling/Alternate Design

- 1420 Kettner - San Diego, CA: Conversion of existing active smoke control system to passive system with enhanced detection\*
- Pechanga Glass Atrium Alternate - Temecula, CA: Alternative design analysis to omit automatic sprinklers in exchange for an enhanced detection system\*

##### Wildland-Urban Interface Evaluation

- 9625 Town Centre Drive - San Diego, CA: Wildland fire modeling to evaluate ignition of exposed cross-laminated timber\*
- Scripps-Mercy Jones House - San Diego, CA: Wildland fire modeling to evaluate exposure hazard from wildland area\*
- Watermark Del Mar - Del Mar, CA: Fire protection plan\*

##### Fire Protection and Building Code Consulting

- Town and Country Hotel - San Diego, CA: Fire protection and egress code consulting\*
- U.S.S Missouri Battleship - Honolulu, HI: Performance-based egress analysis of existing battleship museum in Pearl Harbor\*
- Energy Storage System Installation - Various Locations: Code consulting and lithium-ion battery risk assessment
- High-Rise Building - San Diego, CA: Facade field investigation
- Confidential Project - Oxnard, CA: Code consulting

##### HAZMAT Code Consulting

- Maxwell Technologies - San Diego, CA: Hazardous material code consulting\*
- Piercan Industries - San Diego, CA: Hazardous material code consulting\*

*\*Indicates with previous firm*

#### PUBLICATIONS

- Palenske, Garner and Garth Ornelas. "Storage Protection in the Presence of Horizontal Barriers or Solid Shelving – Literature Review." National Fire Protection Association, Fire Protection Research Foundation Report, October 2017.