



## Patrick Staron

PE, PhD

### Director, Engineering

#### Department

Engineering Services

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#### Locations

Seattle, WA

## Biography

Patrick is a licensed professional engineer specializing in forensic investigations, repair designs, and damage assessments of existing structures. He has investigated and analyzed a variety of different structure types including stadiums, cathedrals, bridges, piers, airports, towers, water tanks, schools, floating docks, and high-rise buildings. Patrick also spent six years working for a marine design and construction firm providing him with extensive design experience in marine and coastal environments.

## Credentials

- PE | Professional Engineer
- PhD | Doctor of Philosophy

## Representative Consulting Assignments

- Grain Storage Facilities | ND | Investigation and finite element modeling of damaged concrete silos.
- Fast Food Restaurants | 40 locations nationwide | Investigation and condition assessment of wood decay, structural overloading and construction defects.
- Naval Station Pearl Harbor Submarine Piers | Pearl Harbor, HI | Investigation and repair design of spalling concrete on submarine piers.
- Aloha Stadium | Aiea, HI | Non-destructive testing and corrosion mitigation design for structural steel.
- Mauna Kea Beach Hotel | Waimea, HI | Investigation of earthquake damage following 2006 earthquake.
- Timber Pier | Charleston, OR | Assessment of fire damage and code review for proposed repairs.
- Cathedral Basilica of Our Lady of Peace | Honolulu, HI | Investigation and repair design to address water intrusion damage.
- Seawall | Nikiski, AK | Investigation of cause and assessment of collapsed industrial seawall.

## Professional Experience

- 2023 - Current | Director, Engineering | YA Engineering Services
- 2021 - 2023 | Senior Regional Supervisor | YA Engineering Services
- 2019 - 2021 | Senior Project Manager | YA Engineering Services
- 2013 - 2019 | Senior Engineer | Bellingham Marine Industries
- 2007 - 2013 | Graduate Researcher | Montana State University
- 2000 - 2007 | Associate III | Wiss Janney Elstner Associates Inc.

## Area of Practice

- Damage Assessment
- Failure Analysis
- Marine Structures
- Repair and Rehabilitation Design

## Education

- Michigan Technological University - Master of Science - Civil Engineering
- Montana State University - Doctor of Philosophy - Civil Engineering
- Michigan Technological University - Bachelor of Science - Civil Engineering

## Affiliations

- International Code Council (ICC)
- American Institute of Steel Construction (AISC)

## Licenses

- CE-158844 - Alaska - Professional Engineer
  - PE-12589 - Hawaii - Professional Engineer (Structural)
  - 19930 - Idaho - Professional Engineer
  - 51275 - Washington - Professional Engineer
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