



Patrick Staron PE, PhD

Director, Engineering

Department
Engineering

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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.

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

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.

Areas of Practice

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

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.

Affiliations

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

Credentials

- PE | Professional Engineer
- PhD | Doctor of Philosophy

Licenses

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