



David Bosko PE, PEng, CFEI

Senior Managing Engineer

Department
Engineering

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Locations
San Francisco, CA

Biography

Dave was introduced to engineering while pursuing an Airframe & Powerplant maintenance degree in university. A love for the details of engineering led to completing his Master's degree in Mechanical Engineering. Dave began his engineering career as a consultant for the power, oil, and gas industries. Expertise developed during this time includes fracture mechanics, welding residual stress analysis, ASME boiler and pressure vessel assessments, API 579/ASME fitness for service assessments, high energy piping design and analysis, and finite element analyses of various types. Discovering a love for the puzzles provided by forensic engineering, Dave continued on to provide consultation in the areas of root cause investigation of mechanical system and component failures. His services include evaluating incidents involving residential, commercial and industrial systems, fire and explosion investigation, product design analysis, damage evaluation, and assessment. Dave has actively consulted for insurance companies, private companies, legal clients, and individuals. Living near San Francisco, California, he can provide resolution for engineering questions throughout California and the contiguous States, Hawaii, and Alberta, Canada.

Education

- San Jose State University | San Jose, California
Master of Science - Mechanical Engineering
- San Jose State University | San Jose, California
Bachelor of Science - Mechanical Engineering

Professional Experience

- 2021 - Current | Senior Managing Engineer | YA Engineering Services
- 2016 - 2021 | Consulting Engineer | Engineering Design & Testing Corp.
- 2002 - 2016 | Consulting Engineer | Intertek
- 2001 - 2001 | Mechanical Engineer, Quality Control Manager | Smart Products

Areas of Practice

- Building Envelope
- Damage Assessment
- Failure Analysis
- HVAC and Mechanical Systems
- Infrared Thermography
- Litigation Support
- Non-Destructive Testing
- Plumbing Systems
- Repair Cost Estimating
- Roofing

Representative Consulting Assignments

- Boeing 777-300 Landing Gear
San Bernardino, CA | Determine the scope of damage and repair costs of a Boeing 777-300 landing gear assembly
- Fire Sprinkler
Novato, CA | Determine the cause of unintended fire sprinkler activation
- Apartment Building
Los Angeles, CA | Determine the cause of water infiltration at roof and resulting scope of damage
- Dump Truck
San Jose, CA | Determine the cause of a dump tip-over and evaluation of dump truck frame design stability
- Backup Diesel Generator
Modesto, CA | Determine the cause and scope of damage to a diesel generator used for backup power at a County office building
- Airport Jetway
Oakland, CA | Determine the cause and scope of damage of a passenger boarding jetway collapse
- Fiber Optics
San Carlos, CA | Evaluate the cause, scope of damage, and repair of buried fiber optic communication cables
- Dip Brazing Salt Furnace
Hayward, CA | Determine the cause of the solidification of molten salt within a dip brazing salt furnace
- Farm Equipment
Bakersfield, CA | Evaluate the condition and operating procedures of a pull flail shredder
- Restaurant Kitchen Fire
Newman, CA | Determine the origin and cause of a commercial kitchen fire
- Elevator
Los Angeles, CA | Determine the scope of damage to multiple elevators as a result of water intrusion
- Well Casing
Rifle, CO | Determine the cause and scope of damage of corrosion to a natural gas well
- Caterpillar 988 Wheel Loader Engine Crankshaft
Roseville, CA | Determine the cause of fracture of a Caterpillar diesel engine crankshaft
- Lift Station Pumps
Laughlin, NV | Determine the cause and scope of damage to pumps and piping at an underground municipal water pumping station
- Paramotor Propeller
San Ramon, CA | Determine the cause of fracture of a composite paramotor propeller
- Plumbing System
Monte Sereno, CA | Determine the cause of residential plumbing water supply connection failure
- Building Air Handlers
San Diego, CA | Determine the condition of a gun range air handling system and the cause of lead contamination

Licenses

- Alberta | 235929 | Professional Engineer
- Arizona | 62906 | Professional Engineer

- California | 36096 | Professional Engineer
- Colorado | 52085 | Professional Engineer
- Hawaii | 17179 | Professional Engineer
- Iowa | P27432 | Professional Engineer
- Louisiana | PE 0046087 | Professional Engineer
- Nevada | 024310 | Professional Engineer
- Oregon | 91546 | Professional Engineer
- Texas | 118062 | Professional Engineer
- Utah | 12373548-2202 | Professional Engineer
- Washington | 22006274 | Professional Engineer

Publications

- David Bosko, June, 2014, Detection of Incipient SCC Damage in Primary Loop Piping Using Fiber Optic Strain Gages, EPRI, Report 3002003219
- David Bosko, March, 2019, Pigs may not fly yet but COW's do!, The Stress Point
- David Bosko, February, 2018, 3D Laser Scanners Capture Minute Details, The Stress Point
- David Bosko, December, 2009, Evaluation of the Pulsed Eddy Current Inspection Technique Known as the Through-Fin Inspection System for Heat Recovery Steam Generators (T-FISH) as Applicable to Power Plants, EPRI, Report 1018987
- David Bosko, December, 2020, Using Drones for Crop Loss Claim Evaluation, The Stress Point
- David Bosko, July, 2015, Optimization of NDE Reexamination Locations and Intervals for Grade 91 Piping System Girth Welds,, ASME paper, PVP2015-45630