

Wes Hansen | Forensic Electrical Engineer, PE

Los Angeles, CA

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Professional Summary:

Mr. Hansen is a licensed professional electrical and mechanical engineer. He has over 7 years of combined experience in Mechanical/Electrical/Plumbing (MEP) consulting, electrical design build construction, and forensic engineering. As a design engineer, he successfully coordinated and designed commercial, industrial, and residential construction projects. He oversaw a wide variety of high-profile projects from the initial planning phase to installation, testing, and troubleshooting of the completed product. His background in construction has given him a clear understanding of subjects related to electrical, HVAC, plumbing, and building codes.

As a forensic engineer Mr. Hansen possesses a unique background as a licensed professional engineer in both, electrical and mechanical disciplines. His dual licensure provides value to customers in need of an expert with broad engineering knowledge and understanding of complex losses and investigations.

His design expertise includes, but is not limited to:

- Design for office, retail, sports arena, food service, healthcare facilities, and industrial buildings
- Photometric lighting analysis
- Power distribution
- Electrical protection, coordination and power studies
- Electrical code compliance
- Lighting selection, layout, and controls
- Electrical cost estimating
- Photovoltaic solar design
- Uninterruptable Power Supply (UPS) systems
- Title 24 compliance

As a forensic engineer his experience includes, but is not limited to:

- Investigating vehicle losses
- Traffic control signal testing
- Event Data Recorder (EDR) recovery
- Large and complex losses
- Assessing commercial and residential building damage due to fire, flood, and vandalism
- Root cause analysis of consumer product and appliance failures
- Failure analysis of lithium-ion batteries
- Electrical repair cost estimating and code compliance
- Diesel generator failure assessment and repair cost estimate
- Medium voltage switch gear failure analysis
- Transformer testing and failure analysis
- Electrical bus duct failure analysis
- Electrical shock and injury investigations
- Electric vehicle charger testing and root cause failure analysis

- Photovoltaic solar system and BESS failure analysis
- Utility system failure investigations
- Boat lift failure analysis
- Mining equipment failure analysis

Licenses and Certifications:

Professional Electrical Engineer, California, License E22878

Professional Electrical Engineer, Nevada, License 028502

Professional Electrical Engineer, Arizona, License 73103

Professional Electrical Engineer, Hawaii, License 19399

Professional Mechanical Engineer, California, License 41152

Professional Mechanical Engineer, Nevada, License 028502

Professional Mechanical Engineer, Arizona, License 76385

Professional Mechanical Engineer, Utah, License 12937233-2202

Professional Mechanical Engineer, Colorado, License PE.0061089

Professional Mechanical Engineer, New Mexico, License 28011

OSHA 10 Certified

Project Experience:

Pet Center Inc, CA

Retail building fire damage investigation

Performed engineering investigation to determine scope of damage to the buildings existing electrical system. Produced an electrical repair cost estimate and written report that included the code upgrades required to pass electrical inspection.

Facebook, Menlo Park, 125 & 135 Constitution Drive

New construction of commercial office campus

Lead engineer for a team of (6) electrical designers and drafters. Completed (2) adjacent 8 level, 225,000 square foot office building permit drawing sets for new construction. Design included, lighting layout and controls, power distribution for office and food service areas, and MEP coordination.

Apple Computer, Cupertino, 4 Infinite

Office campus tenant improvement

Lead engineer for complete electrical permit drawings for a 2 level 33,600 square foot office campus building. Design included, lighting layout and controls, power distribution for office and food service areas, and MEP coordination.

Levis Stadium, Santa Clara, 4949 Centennial Blvd

Tenant improvement

Electrical engineer for all TI work of Levis stadium. Design work included, lighting layout and controls for indoor and outdoor lighting, power distribution for stadium and food service areas, and MEP coordination.

Professional Experience:

EFI Global Inc, Forensic Electrical Engineer, 2020- Present

Cupertino Electric Inc, Electrical Engineer, 2016 – 2020

Sacramento Engineering Consultants, Electrical design Intern, 2015 – 2016

Education:

Bachelor of Science, Electrical and Electronic Engineering, California State University
Sacramento, California, 2016

Master of Science, Electrical Engineering, University California Riverside
Riverside, California, Expected 2023