



JOSEPH PERRY P.E., CFLC

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Professional Experience

With over 41 years' experience; Joseph A Perry P.E. is both a licensed Professional Electrical Engineer in California and Hawaii, and an Electrical Contractor in California. His multiple licenses require design, installation experience, and extensive knowledge of the National Electrical Code and construction. This practical foundation of electrical knowledge was primarily gained through working in the Electrical Trade and owning/operating a Design Build Electrical Contracting business. Joseph's hands on background in electrical design, project management, cost estimating, and field construction work, gives him a unique perspective that few engineers have.

Being both an Electrical Engineer and Electrical Contractor brings a unique perspective to the investigation of your cases. As an Electrical Engineer, he is interested in the forensics of the design and details of the plans and specifications as to how the contractor was required to build the system. As an Electrical Contractor, he is interested in the materials, and how the installation was completed. This unique combination of experience will lead to a quick and thorough investigation into your case.

Past Expert Witness assignments include Pump Station construction and failures, Emergency Generator failures, Personal Injuries due to traffic light failure, electrical shock and electrocution, Electrical Equipment Control failures, Electrical Construction Defects for wineries, condominiums, and Mega Residences, Pump Failure, Cost Estimates, Sewer, and Flood Control Systems. During Joseph's career, he has acted as a Consulting and Testifying Expert Witness on cases for both plaintiffs and defendants.

As a Professional Member of the Forensic Expert Witness Association (FEWA), Joseph has been continuing his professional Expert Witness Training by attending FEWA sponsored Video Conferences and monthly meetings, Joseph has attended six National FEWA Conferences.

Licenses and Certifications

Professional Electrical Engineer California & Hawaii
Licensed Contractor, Electrical, Plumbing, HVAC
Certified Forensic Litigation Consultant (FEWA)

CA# E9683 & HI# E12924
CA# 402494 (C-10, C-36, C-20)
Certificate # 018

Skills

SCADA, Telemetry Supervisory Control
Variable Frequency Drive (VFD) Motor Control
Reduced Voltage Soft Start (RVSS) Motor Control
Habitability Studies, Ca Civil Code 1941.1
National Electrical Code, NFPA 70 compliance
Electrical Estimating, Project Management
Solar PV System Electrical Design and Construction

Underground Electrical Construction
Well, Storage Tank, Pumping Control and Design
Cellular and Radio Communication Networks
Critical Load and Standby Generator Applications
Programmable Logic Controllers (PLC) Hardware
UL508A & UL698A Industrial Control Panel Standards
Standard of Care, Forensic Analysis, Product Liability

Educational Foundation

Healds Engineering College, San Francisco, BSEE Electrical Engineering (Power and Control Systems Focus)

Current Employment

Electrical Design and Forensic Engineer

Joseph Perry P.E., LLC

2016 - Present

My primary duties are to provide electrical design, review, and approval of electrical construction including Commercial and Industrial projects, and Solar PV projects for electrical contractors and owners. I provide Electrical Forensic engineering review and litigation support to law firms and insurance carriers for cases regarding Electrical Construction Defects, Personal Injury due to Electrical Accidents, Shock, Electrocutation, Electric Arc Flash, Lock out-Tag out violations, Standards of Care by Electrical Engineers, Contractors and their workmen, Electricity Theft, Cost Estimating, Fire Analysis when the fire is suspected to be caused by Electricity, Photovoltaic Solar Systems design and installation, Underground Utility location accidents, Electrical Power and Controls for Water \ Wastewater, Pump Station, Tank, or Treatment Plant and related causes of Sewage Spills or Tank over filling causing flooding.

I have 20 plus years of experience with the design and application of Underwriters Laboratory UL 508A and UL698A standards as they relate to industrial control panels for the energy management and water/wastewater industry. I have extensive National Electrical Code and California Electrical Code compliance understanding as they relate to electrical construction projects. I have designed the electrical system for several RV parks to bring them in to compliance with today's rigorous power requirements.

Work History

Engineering and Design Manager

MCC Control Systems, 3/2016 acquired by SJE Rhombus, PRIMEX

2014 – 2016.

While managing the Engineering Design and Drafting team, I was also responsible for the design of power and control panels for water/wastewater pump stations, medium size wastewater treatment plant control panels and Motor Control Centers. Designs included PLC Panels, Motor Control Centers and chemical monitoring systems. I was the responsible Electrical Engineer for all MCC Control Systems California projects that require an electrical engineer's design approval and engineering stamp.

Independent Consulting Electrical Engineer

Control Systems West, Inc.

2002 – 2014.

My primary design duties were to design power and controls for water/wastewater pump stations and medium size wastewater treatment plant control panels. I was the responsible Electrical Engineer for all Control Systems West, Inc. California and Hawaii projects that require an electrical engineer's design approval and engineering stamp. I was the Contract Administrator for most of the Control Systems West, Inc. contracts to provide control panels, which are used by municipalities in California and Hawaii. I was the primary contact for Underwriters Laboratory (UL) certification of Industrial Control Panels (UL508A and UL698) that are designed and built at Control Systems West, Inc.

Owner

California Energy Experts

2001 – 2002

I was an independent Engineering Consultant and Electrical Contractor for the City of Cotati Department of Public Works Water/Wastewater Pump Stations. Also, I worked for various clients performing electrical contracting services. Working with Control Systems West, Inc. with its established volume of business, offered a superb opportunity to utilize my Engineering Design talents in the design of industrial control panels dedicated to the water/wastewater industry.

Investment Broker

Edward Jones Investments

1998 – 2001

After passing the Securities and Exchange Commission Series 7 License, I opened an Edward Jones Investment office in Rohnert Park, CA. I serviced my clients by selling stocks, mutual funds, bonds, annuities, life and long-term care insurance. I enjoyed the sales aspect of the business; however, this business was much too distant from the finite business of Electrical Engineering.

Outside Sales

Cal Air, Inc.

1997 – 1998

Outside sales of Heating Ventilation and Air Conditioning (HVAC) Services. Cal Air purchased my previous Electrical Engineering; Electrical, HVAC, and Plumbing contracting business. I agreed to stay on in the sales capacity for one year to expand their presence in the Sonoma County area and provide continuity with our existing client base.

President California Energy Experts, Inc., (CEE)
1984 – 1997

We designed and built Facility Automation Systems (FAS) totaling 7.6 million square feet of municipal, school, commercial and light industrial building spaces in 15 states. Project makeup was approximately 36% new and 64% retrofit installations. We incorporated, programmed, and supported dedicated technically advanced controllers for HVAC Systems. Our Lighting Control Systems incorporated daylighting and time of day scheduling. Variable Frequency Drives (VFD), were used on cooling towers, pumps, supply and return fans to enhance the energy efficiency of HVAC systems, economizer damper positioning and monitoring were an integral part of our control designs which led to further energy reductions. Demand control routines were incorporated in the designs when there was an advantage to the customer. All systems included remote communication abilities to allow offsite monitoring and minor software revisions. We expanded our company's expertise by bidding and installing well, water/wastewater, flood control, power and control systems. We designed and built Standby Generator Systems (up to 250 KW), including single and multiple transfer switches and isolation of critical/non-critical loads. We incorporated peak shaving strategies into the design when applicable. California Energy Experts was further expanded by incorporating HVAC and plumbing contracting under our umbrella. California Energy Experts was sold to Cal Air, Inc. which provided me an opportunity to explore Outside Sales.

Owner Energy Experts
1982 – 1984

When Energy Experts was formed, my goal was to design and install control systems dedicated to energy management in commercial buildings; utilizing the most recent computerized advancements in HVAC and Lighting Controls. I began by selling the concept to businessmen in our county, then designing and installing the control system. After landing Energy Management System design and installation contracts with a major department store chain, Energy Experts quickly grew and earned the respect of the Facilities Managers for this chain. As the company volume grew, Energy Experts was incorporated and renamed to California Energy Experts, Inc.

Electrical Engineer P.E. RE Corp. Inc., DBA Reliance Enterprises
1979 –1982

After obtaining Professional Engineer status, I began estimating electrical construction projects and assisted in contract administration and purchasing materials that were required to successfully complete bid projects. I also earned my Electrical Contractors' License during this period. The Engineering and Contracting foundation established at RE Corp afforded me the knowledge, experience and confidence to start my own engineering/contracting business, Energy Experts specializing in energy management and control systems.

Membership in Trade Associations

Institute of Electrical Electronic Engineers, (IEEE), my IEEE # 90393171

Senior Member Status: Less than 8% of all IEEE Members are Senior Members.

Forensic Expert Witness Association, (FEWA), Northern California Chapter

Past President 2018, President 2017, Board of Directors Member (8 years), Past Assistant to the

Chapter Secretary, Past Membership Chairman, and 2016 National FEWA Conference Co-Chairman

International Association of Arson Investigators (IAAI), Associate Member