



Stepan V. Eero, M.S., P.E.

Electrical & Corrosion Engineer

Origin & Cause Investigator

Cathodic Protection Specialist

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November 2025

Experience

Electrical/Corrosion Engineer

Dreiy Engineering PLLC

2014 to Present

Houston, Texas

Primary responsibilities include providing professional electrical and corrosion consulting services for projects across a wide range of industries including but not limited to: Insurance and Litigation, Federal, Nuclear, Oil & Gas, Water, Wastewater, and Maritime. Projects include fire investigation, failure analysis, product liability, expert witness testimony, field assessments, engineering design, construction inspection, and commissioning.

Additional responsibilities include corrosion control system design and analysis for production well casings, large-diameter water lines, tank structures, and regulated high-pressure gas systems. Site resistivity and corrosivity testing and evaluations, groundbed calculations, and design. Pipeline coating system surveys utilizing DCVG, ACVG, and current attenuation techniques.

Electrical & Corrosion Engineer

Verité Forensic Engineering, LLC.

2015 to 2016

Houston, Texas

Primary areas of consultation included residential and industrial electrical systems; industrial controls and instrumentation, vehicle electrical systems, large and small appliance wiring, sacrificial and impressed current cathodic protection systems, AC and DC corrosion failure analysis; and tank and pipeline integrity assessment.

Forensic Electrical & Corrosion Engineer

McDowell Owens Engineering, Inc.

2015

Houston, Texas

Responsibilities included failure analysis of residential and industrial electrical systems; industrial controls and instrumentation, vehicle electrical systems, large and small appliance wiring, sacrificial and impressed current cathodic protection systems, AC and DC corrosion failure analysis; and tank and pipeline integrity assessment.

Integrity Engineer

MESA Products, Inc.

2014 to 2015

Houston, Texas

Subject Matter Expert for AC mitigation projects throughout North America. Duties also included analysis of energy pipeline networks, collocated with high voltage transmission lines, at risk of electromagnetic induction effects resulting in hazardous voltages and AC corrosion. Project

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Engineer for Internal Line Inspections. Responsible for structural integrity assessment of pipeline systems by means of Magnetic Flux Leakage inspection tools in accordance with API 1163.

Electrical & Corrosion Engineer

Lockwood, Andrews & Newnam, Inc.

2013 to 2014

Houston, Texas

Responsible for electrical system design for water and wastewater treatment plant distribution systems. Duties also included motor protection schemes, voltage drop considerations, conductor sizing, grounding methods, and short circuit and arc flash analysis. Corrosion control design consultant to the City of Houston's Water and Wastewater Engineering division. Responsible for condition assessment of existing large-diameter water transmission line systems, soil corrosivity analysis, corrosion control design, construction technical support, and cathodic protection system startup and commissioning.

Electrical & Corrosion Engineer

URS Corporation

2011 to 2013

Richland, Washington

Cognizant Systems Engineer of the Cathodic Protection System at the Nuclear Waste Treatment and Immobilization Plant. Monitored system compliance with the Washington Administrative Code and NACE RP0169, Control of External Corrosion on Underground or Submerged Metallic Piping Systems. Responsible for start-up, operations, and maintenance engineering support for the low and medium-voltage electrical distribution systems associated with the Low Activity Waste facility, the Analytical Laboratory and the Balance of Facilities at the Nuclear Waste Treatment Plant.

Electrical Engineer

CH2M HILL Plateau Remediation Company

2009 to 2011

Richland, Washington

Assisted in engineering projects associated with the Liquid Waste and Fuels Storage (LWFS) nuclear facilities. Performed short circuit and arc flash analysis on the electrical power systems at LWFS nuclear facilities. Received hands-on experience programming and troubleshooting Adjustable Speed Drives to meet system performance requirements.

Professional Registrations

Professional Engineer State of Arkansas, License No. 17352

Professional Engineer State of Colorado, License No. 67336

Professional Engineer State of Georgia, License No. PE041441

Professional Engineer State of Louisiana, License No. 40282

Professional Engineer State of New Mexico, License No. 23097

Professional Engineer State of Oklahoma, License No. 29126

Professional Engineer State of Texas, License No. 117442

Professional Engineer State of Washington, License No. 51155



Certifications

Certified Cathodic Protection Specialist (CP4) AMPP (Previously NACE), Certification No. 37766
Certified Fire and Explosion Investigator (CFEI) NAFI, License No. 20327-11799v
Certified Vehicle Fire Investigator (CVFI) NAFI, License No. 20327-11799v

Education

Washington State University

Richland, Washington

**Master of Science
Electrical Engineering**

Washington State University

Pullman, Washington

**Bachelor of Science
Electrical Engineering | Minor - Mathematics**

Graduate Courses

EE 582, Advanced Topics (Renewable Energy), Washington State University (WSU)
EE 702, Masters Directed Study/Exam, WSU
EE 528, Advanced Topics In Electromagnetics, WSU
EE 535, Numerical Solutions to EM Problems, WSU
EE 700, Masters Research, Thesis, Examination, WSU
EE 595, Directed Study in Electrical Engineering, WSU
EE 496, Semiconductor Device Theory, 3 CH's, WSU
EE 504, Modern Optics, WSU
MATH 548, Numerical Analysis, WSU
EE 518, Advanced Electromagnetic Theory, WSU
EE 507, Random Processes in Engineering, WSU
EE 501, Linear System Theory, WSU

Seminars and Additional Education

2025 – OSHA Quick Guide on Trenching & Excavation Safety, Engineering-PDH
2025 – Electrical Safety Vol 1 of 2, Engineering-PDH
2025 – NCEES Model Laws Review, Engineering-PDH
2025 – Fire Investigation Training Program – Baltimore, MD, NAFI
2024 – NCEES Model Rules Review, Engineering-PDH
2024 – Corrosion Mitigation In Post-Tension Cables, Engineering-PDH
2024 – Engineering Symbolology, Prints, & Drawings – Vol 2 of 2, Engineering-PDH
2023 – Excavation & Trenching Safety, Engineering-PDH
2023 – NCEES Model Laws Review, Engineering-PDH
2023 – A Guide to Good Practices for Equipment & Piping Labeling, Engineering-PDH
2023 – Engineering Symbolology, Prints, & Drawings – Vol 1 of 2, Engineering-PDH
2022 – Bonneville Power 115kV Line – 2018 Accident Investigation, Engineering-PDH
2022 – ASME Code of Ethics for Engineers, Engineering-PDH
2022 – Cathodic Protection Design, Engineering-PDH

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2022 – Basic Corrosion Theory, Engineering-PDH
2022 – NSPE Code of Engineering Ethics, Engineering-PDH
2021 – Green Design: The Ethics of Green Design, RedVector
2021 – Electric Power Substations, RedVector
2021 – Overcurrent Protection II - Coordination, RedVector
2021 – Overcurrent Protection I – Short Circuit Calculations, RedVector
2021 – Power Transmission and Distribution, RedVector
2021 – General Electrical Hazard Awareness for Site Safety, RedVector
2021 – Fuel and Combustion Systems Safety – Gas Supply System Issues, RedVector
2021 – Driven Piles: Pile Type and Selection, RedVector
2021 – Lead Contamination of Public Water Systems, RedVector
2021 – Rehabilitation of Water Distribution Systems: Selecting Rehab Methods, RedVector
2020 – Fire Investigation Training Program – New Orleans, LA, NAFI
2020 – Ethical Decision Making for Engineers #1, RedVector
2020 – A Professional Engineer’s Standard of Care, RedVector
2020 – 2020 NEC Changes: Overvoltage and Grounding & Bonding, RedVector
2020 – 2020 NEC Changes: Focus on Wiring Methods, RedVector
2020 – 2020 NEC Changes: Equipment for General Use, RedVector
2020 – 2020 NEC Changes: Devices, Lighting, and Gear, RedVector
2020 – 2020 NEC Changes: Conductors, Wiring Methods, and Enclosures, RedVector
2020 – 2020 NEC Changes: Backup Power, Energy Storage, and Limited-Energy, RedVector
2020 – 2020 NEC Changes: Wiring and Protection, RedVector
2020 – 2020 NEC Changes: Special Occupancies, RedVector
2020 – 2020 NEC Changes: Special Equipment, RedVector
2020 – 2020 NEC Changes: Solar PV Systems and Interconnected Power Systems, RedVector
2020 – 2020 NEC Changes: Process Review and Updated Articles, RedVector
2020 – 2020 NEC Changes: General Requirements, RedVector
2020 – 2020 NEC Changes: Branch Circuit GFCI Protection, RedVector
2019 – Fuel Cell Power Systems, RedVector
2019 – Protecting Your Communication System from Transients and Surges, RedVector
2019 – Data Centers: MEP, Fire Protection, and Equipment Rooms, RedVector
2019 – Hydroelectric Power Generation, RedVector
2019 – Critical Facilities – Emergency Electric Power, RedVector
2019 – Electrical Fire Alarm Systems, RedVector
2019 – Ethical Decision Making for Engineers #5, RedVector
2019 – Ethical Decision Making for Engineers #4, RedVector
2019 – Transmission and Distribution: Underground Residential Distribution Systems, RedVector
2019 – Transmission and Distribution: Substation and Switchyards, RedVector
2019 – DC Power in the Data Center, RedVector
2019 – NFPA 70E – 2018 Updates, RedVector
2018 – International Building Code & More: Fire Protection Systems, RedVector
2018 – Electric Fire Alarm Systems, RedVector



2018 – Fire Alarm Essentials, RedVector
2018 – 2017 NEC Changes: A New Process and Five New Articles, RedVector
2018 – 2017 NEC Changes: Special Equipment, RedVector
2018 – 2017 NEC Changes: Special Occupancies, RedVector
2018 – 2017 NEC Changes: Enclosures and Boxes, RedVector
2018 – 2017 NEC Changes: Appliances and Equipment, RedVector
2018 – 2017 NEC Changes: Receptacles and Switches, RedVector
2018 – 2017 NEC Changes: Conductors and Wiring Methods, RedVector
2018 – Ethics for the Practicing Engineer – Organizational Issues, RedVector
2018 – Ethics for Professionals, RedVector
2017 – 2017 NEC Changes: Communications Systems, RedVector
2017 – Transformers II – Standards, RedVector
2017 – Surge Protection, RedVector
2017 – 2017 NEC Changes: General Requirements, RedVector
2017 – Ethical Decision Making for Engineers #3, RedVector
2017 – Ethics for the Practicing Engineer – Managing Risks Imposed on the Public
2017 – Electric Motors, RedVector
2017 – Microgrid Essentials, RedVector
2017 – Fire Essentials and Fire Science, RedVector
2017 – 2017 NEC Changes: Hazardous Locations, RedVector
2017 – 2017 NEC Changes: Overcurrent Protection and Grounding & Bonding, RedVector
2017 – 2017 NEC Changes: Branch Circuit, Feeder and Services, RedVector
2016 – Electric Motors & Generators: DC Motors, RedVector
2016 – Transformers I – Electrical Characteristics, RedVector
2016 – Site Utility Design: Commercial Buildings, RedVector
2016 – Power Transmission & Distribution – Basic Equipment and Terminology, RedVector
2016 – Subsurface Utility Engineering – Part 1: Understanding SUE, RedVector
2016 – Subsurface Utility Engineering – Part 2: Understanding CI/ASCE 38-02, RedVector
2016 – Electric Power Substations & Distribution, RedVector
2016 – Structural Guying for Electric Distribution Systems, RedVector
2016 – Ethics for the Practicing Engineer – An Introduction, RedVector
2015 – Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar, National Association of Fire Investigators (NAFI)
2015 – Residential Electricity for Fire Investigators, Fire Findings LLC
2015 – The Scientific Method for Fire and Explosion Investigation, International Association of Arson Investigators (IAAI) - CFITrainer.net
2015 – The Deposition Part 2: Questioning Tactics and Effective Responses, IAAI - CFITrainer.net
2015 – The Deposition Part 1: Format, Content, and Preparation, IAAI - CFITrainer.net
2015 – Fundamentals of Residential Building Construction, IAAI - CFITrainer.net
2015 – Documenting the Event, IAAI – CFITrainer.net
2015 – Arc Mapping Basics, IAAI – CFITrainer.net
2015 – Electrical Safety, IAAI – CFITrainer.net
2015 – Basic Electricity, IAAI – CFITrainer.net



- 2014 – Cathodic Protection Specialist (CP4) Course, National Association of Corrosion Engineers International (NACE)
- 2013 – Cathodic Protection Technologist (CP3) Course, NACE
- 2012 – Cathodic Protection Technician (CP2) Course, NACE
- 2012 – Cathodic Protection Tester (CP1) Course, NACE
- 2011 – ETAP Power System Engineering Course, Operations Technology, Inc.
- 2011 – NFPA 70E Standards for Electrical Safety Course, The Volpentest Hazardous Materials Management and Emergency Response (HAMMER) Federal Training Center
- 2010 – National Electrical Code – Grounding Course, HAMMER
- 2010 – Radiological Worker II Course, HAMMER
- 2009 – Radiological Worker I Course, HAMMER