

Professional Summary:

Scott has extensive experience in both design and installation of electrical systems in a wide variety of facilities and buildings. His background includes the simultaneous owner/operator of both an electrical engineering company and electrical contracting company in Colorado. Projects included new and remodel electrical design and/or installation in hospitals, colleges, schools, county/city facilities (jails, courts, maintenance buildings, water and wastewater plants, offices), state maintenance facilities, federal testing facility, and many types of commercial, industrial, and residential buildings. His background also includes design and engineering support for field operations experience with petroleum pipeline facilities in the Gulf of Mexico, California, Texas, Louisiana, and Mississippi. Recently, he has worked over 40 loss investigations, including fires, equipment malfunctions and failures, lightning damage, water damage, and shipping damage.

Area of Expertise:

Design, installation, and troubleshooting:

- Switchgear, Motor Control Centers, Electrical Service Gear and Metering Equipment
- Panelboards, load centers, circuit breakers
- Transformers
- Service laterals, feeders, branch wiring
- Motor Controllers, Variable Frequency Drives, Programmable Logic Controllers
- Starters, Contactors, Relays
- Lighting Fixtures, Lighting Controls
- Athletic Field Lighting and Controls
- Generators, Uninterruptable Power Supplies, Inverters
- Elevator Equipment and Connection
- Motors, Equipment Connections & Controls
- Solar Systems, Charging Stations, Inverters
- Fire Alarm Systems
- Calculations: fault calculations, load calculations, voltage drop, and circuit/wire sizing

Licenses and Certifications:

Professional Engineer, State of California, License #E 13667

Professional Engineer, State of Colorado, License #30677

Master Electrician, State of Colorado, License #25098

Professional Engineer, State of Wyoming, License #PE19617

Professional Engineer, State of Utah, License #13368239-2202

Professional Engineer, State of New Mexico, License #28883

Professional Engineer, State of Arizona, License #79457

Professional Engineer, State of Kansas, License #30232

Professional Engineer, State of Nebraska, License #E-20309

Professional Engineer, State of Texas, License #150945

Professional Experience:

EFI Global, Denver, Colorado, Forensic Electrical Engineer, 2023 to Present

JSH and Associates, Parker, Colorado, Owner/Principal, 1995 to 2023

Hilltop Electric Inc., Parker, Colorado, President, 1995 to 2022

Shell Pipeline Corporation, New Orleans, Louisiana, Technical Supervisor, 1992 to 1995

Shell Pipeline Corporation, Houston, Texas, Electrical Engineer, 1991 to 1992

Shell Pipeline Corporation, Anaheim, California, Field Engineer, 1988 to 1991

Shell Pipeline Corporation, Houston, Texas, Electrical Engineer, 1986 to 1988

Specialized Education:

Analysis of Significant Changes in the 2023 NEC, On-Line, 2023, 16 hours (tested)

2023 NEC Changes Impacting Pools, Hot Tubs, Fountains, On-Line, 2023, 4 hours (tested)

NFPA 70e, 2021 Edition, Electrical Safety Updates Online Course, On-Line, 2023, 4 hours (tested)

Expert Witness Courtroom Testimony, Amarillo, Texas, 2023, 40 hour (tested).

Personal Protective Equipment for Post-Fire Scenes, On-Line, 2023, 3 hours (tested)

The Scientific Method for Fire and Explosion Investigation, On-Line, 2023, 3 hours (tested)

Effective Investigation and Testimony, On-Line, 3 hours, (tested)

Documenting the Event, On-Line, 4 hours, (tested)

Arc Mapping Basics, On-Line, 4 hours, (tested)

2020 Wiring Methods and Material, On-Line, 2019, 8 hours (tested)

2020 NEC Changes Part 1, Articles 90-455, On-Line, 2019, 8 hours (tested)

2020 NEC Changes Part 2, Articles 500-820, On-Line, 2019, 8 hours (tested)

Grounding and Bonding, On-Line, 2017, 8 hours (tested)

Education:

Bachelor of Science, Electrical Engineering, Colorado School of Mines, Golden, Colorado, 1986

Honors and Awards:

Academic Dean's List, Colorado School of Mines, 1986