

Electrical Systems Director with 42 years of experience as licensed electrician on high, medium, and low voltage electrical systems in industrial and commercial applications within the U.S and internationally. Experienced in electrical construction and project management. Significant expertise in large electrical systems and industrial infrastructure, including distribution systems, microgrids, and core / emergency back up systems for critical facilities (e.g., hospitals, electric generation plants, wastewater facilities, refineries). Expert in design, installation, commissioning, and operation and maintenance of electrical controls and control architecture. Experienced management of strategic energy planning, budgeting, value engineering, construction, commissioning, and day-to-day operations and maintenance. Skilled manager of large, multi-disciplinary electrical contracting teams. Project manager for leading-edge electrical research projects with distributed energy resources (e.g., solar photovoltaics, battery storage, electric vehicle charging stations) and advanced building controls. Implementation of both analog and digital load controls (e.g., load shed, demand response). Extensive knowledge of electrical system codes and regulation, OSHA, OSHPD and various other compliance standards and reporting. Mentor and instructor for electrical training on microgrids and other advanced electrical systems.

Work History

2018 – Present	Electrical Systems Director	Blue Lake Rancheria (Blue Lake, CA)
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Responsible for all electrical infrastructure across a Native American tribal nation, in all operations (e.g., government and all departments, tribal utility authority, residences, tribal economic enterprises, on-Rancheria infrastructure and infrastructure that connects to regional grids (e.g., electric, telecom, water smart grid components, etc.)

Conduct planning and design for electrical systems, including low voltage up through 12.5 kV grids.

Construct, commission, and maintain grids (low voltage up through 12.5 kV).

Manage four (4) microgrids, two at community scale, two at facility scale.

Manage electric generation and storage assets (e.g., ~500 kW in multiple solar PV arrays, over 3 MW of battery storage, Tier 4 emergency back-up diesel generators).

Manage operation and maintenance of building electrical systems, including controls (e.g., energy management systems, SCADA) and security/alarm systems.

Manage electric vehicle charging infrastructure.

Develop and implement energy efficiency measures, building electrification, and electrified transportation initiatives.

Manage electrical systems budget.

Lead and manage construction of electrical infrastructure and related projects (e.g., energy-efficient smart water grid)

Maintain strategic partnerships with regional utility Pacific Gas and Electric Company (PG&E), and community choice aggregator Redwood Coast Energy Authority (RCEA).

Direct, manage electrical design, project engineering, plan set development, review and approval, final as-built documents.

Direct construction teams, conduct field inspections and verifications.

Manage vendors and contractors, bid processes, change orders.

1999 – 2018	Senior Electrician / Project and Construction Managing Electrician	Colburn Electric (Eureka, CA)
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Completed over 100 electrical construction projects on time and on budget.

Supervised construction of industrial and commercial electrical systems for over 70 projects, on time and on budget.

Illustrative projects include oil refineries, pulp mills, grocery stores, wastewater plants.

Larger construction projects in the last 20 years for Colburn Electric. Electrical Superintendent from the ground up construction of a 33'000 sq. ft. Gaming Casino for the Blue Lake Rancheria. Electrical Superintendent for the construction of Gas Station/Convenience Store. Emergency power upgrade for Y2K St. Joseph Hospital Eureka, Ca. Electrical Superintendent for Juvenile Detention Center Weaverville, Ca. Electrical Superintendent Major plant upgrade New Facility for Cypress Grove goat cheese processing plant. Electrical Superintendent for Complete remodel of Crescent City Waste Water Treatment Facility. Crescent City Ca. Electrical Superintendent for new Science and Academics buildings for College of the Redwoods.

Licenses / Education

Electrical Apprenticeship, United States Air Force

California C10 Electrical Contractors License CSLB #644551

California General Electrical Journeyman License