

ENGINEER: ELECTRICAL

TAYLOR A. RUSSELL, PE, CAP
Engineering Design & Testing Corp.
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EDUCATION:

2007 Bachelor of Science, Electrical Engineering
New Mexico State University, Las Cruces, New Mexico

EXPERIENCE:

July 2018 **Engineering Design & Testing Corp.**
to Present **Concord, California**

Consulting Engineer. Consulting in the area of electrical engineering for residential, commercial, and industrial systems, including cause and origin analysis of electrical system failures, electrical code compliance review, technical investigation of incidents involving commercial and industrial power distribution and control systems, project management, scope of damage, and analysis of costs to repair or replace electrical equipment and systems. Provides consultation services in design review, loss prevention, and risk assessment.

May 2016 **San Francisco Public Works**
to July 2018 **San Francisco, California**

Electrical Engineer, Group lead. Manager of a full-service design group of engineers and drafters focused on the design and construction of industrial power and automation systems. Work included supervision and mentorship of young engineers, resource and budget management, and customer service to client agencies.

Functions included serving as the electrical, instrumentation, and automation discipline lead on large capital projects, as well as serving as lead Project Engineer and overseeing multidisciplinary design teams. Work included all aspects of project engineering, from conceptual planning through commissioning, including detailed cost estimating, scheduling, design, bid & award support, construction support, and commissioning.

April 2009
to May 2016

San Francisco Public Utilities Commission
San Francisco, California

Associate Electrical Engineer. Engineering design lead for power, automation, instrumentation & control systems for Wastewater treatment facilities, pump stations and collection systems. Design, analysis and modification of SCADA, DCS, PLC/HMI systems. Developed and analyzed control strategies and associated algorithms. Designed power distribution, motor control, lighting, protection and safety systems for various capital improvements, refurbishment projects, and energy efficiency retrofits.

May 2007
to April 2009

Lotus Consulting Group
Los Altos, California

Energy Analyst. Created, maintained, updated, and simulated power grid computer models. Analyzed data created by simulation of these models for clients, including analyzing the economic impacts of power grid congestion, the effects of changing fuel prices (coal, natural gas, etc.), and the impact of the addition of wind and solar power assets. Compiled this data into reports for clients and to benchmark and check accuracy of the computer models against real-time data from the various independent system operators (ISO's) of the US power grid.

CONTINUING EDUCATION:

ISA Certified Automation Professional Exam Preparation (2017)
Large Loss Fires, A Team Approach (2018)
Engineering Design and Product Liability (2018)
Electrical Connection Failures (2019)
Basics of Insulation Resistance Testing (2019)
The Use of Cranes in Construction Operations (2019)
Interdisciplinary Investigations (2019)

PROFESSIONAL ORGANIZATIONS:

International Society of Automation (ISA)
Institute of Electrical and Electronics Engineers (IEEE)
National Fire Protection Association (NFPA)
National Association of Fire Investigators (NAFI)
International Association of Arson Investigators (IAAI)

February 12, 2019

REGISTRATIONS and CERTIFICATIONS:

Certified Automation Professional – International Society of Automation (#101959)

Registered Professional Engineer (Electrical) in Arizona (#67760)

Registered Professional Engineer (Electrical) in California (#E 20081)

Registered Professional Engineer in Colorado (#0054987)

Registered Professional Engineer in Idaho (#P-18134)

Registered Professional Engineer in Montana (#59437)

Registered Professional Engineer (Electrical) in Nevada (#026049)

Registered Professional Engineer in New Mexico (#25289)

Registered Professional Engineer in Oregon (#94305)

Registered Professional Engineer in Texas (#132792)

Registered Professional Engineer in Utah (#10970319-2202)

Registered Professional Engineer in Washington (#56706)

Registered Professional Engineer in Wyoming (#16985)