TAYLOR A. RUSSELL, P.E., CAP, CFEI
Engineering Design & Testing Corp.
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EDT Forensic Engineering & Consulting

ENGINEER: ELECTRICAL

EDUCATION

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

EXPERIENCE

July 2018 to Present **Engineering Design & Testing Corp.**
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 fires, arc flash, 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 to July 2018 **San Francisco Public Works**
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.

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Engineering services in New York and North Carolina provided through the associated firm, EDT Engineers, P.C.

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.

REGISTRATIONS and CERTIFICATIONS

Registered Professional Engineer in Arizona (#67760)

Registered Professional Engineer 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 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)

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

Certified Fire and Explosion Investigator – NAFI (#23597-13983)

PROFESSIONAL ORGANIZATIONS

Institute of Electrical and Electronics Engineers (IEEE)

International Association of Arson Investigators (IAAI)

International Society of Automation (ISA)

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

CONTINUING EDUCATION

2019 Advanced International Fire, Arson & Explosion Investigation Training Program

Basics of Insulation Resistance Testing

Electrical Connection Failures

Interdisciplinary Investigations

The Use of Cranes in Construction Operations

2018 Engineering Design and Product Liability

Large Loss Fires, A Team Approach

2017 ISA Certified Automation Professional Exam Preparation