RESUME

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SUMMARY

Reza Tajali is the Midwest Engineering Manager for Schneider Electric Engineering Services group. His team of engineers supports industrial and commercial customers with power system design, analysis and power quality improvement plans.

EDUCATION

MSEE, Power Systems, Tennessee Technological University, Cookeville, Tennessee, 2004
BSME, Thermal and Heat Transfer, California State University, Los Angeles, California, 1981

PROFESSIONAL ENGINEERING REGISTRATION

California, Electrical license # E12610, Tennessee, #103256, Alabama #29380, Mississippi #20045, Ohio #68997, Kentucky #24170

PATENTS

Meter Socket Assembly and Distribution Board. US Patent #5,414,590
Meter Socket Pan and Assembly, US Patent #5,404,269

PROFESSIONAL EXPERIENCE

Since 1998 Schneider Electric Engineering Services, Nashville, Tennessee. Manager of Engineering for the Midwest region. He is responsible for managing a group of professional engineers in performing system studies, power system design and power quality audits on industrial and commercial power systems. Examples of the work performed by this group include design of turn-key equipment replacement, short circuit, coordination and arc flash studies; load flow and harmonic studies; evaluation of voltage sags and transients; power quality evaluation for drives and automation equipment.

PREVIOUS PROFESSIONAL EXPERIENCE

1995 to 1998: Square D Company Power Management Operations, LaVergne, Tennessee. Engineering team leader. Responsible for the integrity of system design and the quality of the custom products. Led a team of engineers working extensively with PLC controls (Modicon and Square D Sy-Max), communication networks and the development of custom software for data acquisition and display. Examples of this work include load shedding controls, supervisory control and data acquisition systems and power management systems used for controlling the cost of energy.

1991 to 1995: Square D Company Low Voltage Products Development Engineering, Smyrna, Tennessee. Product development team leader. Led a team of engineers in developing a new line of commercial metering switchboards. Responsible for project schedules, product costs and ultimate compliance with industry standards and market requirements. Responsible for the overall product design, including issues dealing with safety and operator interface, and the mechanical and thermal integrity of electrical bus structure and switching devices.

1981 to 1991: Square D Company, Los Angeles and Chino Assembly Plants, California. Started as a switchgear engineer. Advanced to order engineering supervisor managing a team responsible for developing custom designed medium and low voltage switchgear equipment and control schemes, electrical controls trouble-shooting and field application assistance on these products. Grew the engineering group based on the needs of the business while reducing waste and improving quality of the output through process mapping and optimization techniques.

TECHNICAL PAPERS AND ARTICLES

1. Transmission Line Troubles, Improve Reliability with Better Switchgear, Electricity Today, Volume 24, No. 6, July/August 2011, pp. 36-40, http://online.electricity-today.com/doc/electricity-today/et_july2011_digital/2011081901/#40
2. Chowdhuri, Tajali, Yuen, Analysis of Striking Distance of Lightning Strokes to Vertical Towers, IET Transactions on Generation, Transmission, Distribution, 2007
3. Simplifying Harmonic Mitigation for Industrial Plants, EC&M Magazine, January 2005
4. Mosman, Tajali, Optimizing Power System Protection for Data Centers, *Pure Power Magazine*, September 2003
5. Long-Term Reliability Requires Constant Vigilance, *Energy User News Magazine*, September 2003, http://www.reliabilityweb.com/art05/reliability_of_critical_power.htm
6. System Grounding for Mission Critical Power Systems, *Outside Plant Magazine*, April 2002
7. Medium Voltage Automatic Transfer for Critical Power Systems, Case History of Ground Relay Tripping Problem, *Proceedings of Power Systems World 2001 Conference*, Chicago, Illinois
8. Low Voltage Circuit Breaker Guidelines for Data Centers; Power Monitoring for Modern Data Centers, Two articles published in the *Design Magazine*, Issue 10, 2001, Square D Company / Schneider Electric
9. Line to Ground Voltage Monitoring on Ungrounded and Impedance Grounded Power Systems, *Proceedings of Power Systems World 2000 Conference*, Boston, Massachusetts

Some of the TECHNICAL SEMINARS DELIVERED

1. Mitigating Arc Flash Hazards, EFCOG Electrical Safety Workshop, Oak Ridge National Lab, October 18, 2011, http://www.EFCOG.org/wg/esh_es/events/ESSG_fall_11_meeting/presentations/111018%20ORNL_rev1.pdf
2. Tajali & Shapiro, Arc Flash Electrical Safety Practices and Enforcement Impact in Data Centers, *7x24 Exchange National Conference*, Boca Raton, FL, June 2005
3. Tajali & Zientek, NFPA 70E and OSHA Arc Flash Requirements, *Music City Power Quality Group*, Nashville, Tennessee, August 2003
4. Tajali, Lynch and Good, Data Center Ground Fault Protection Optimization, *7x24 Exchange National Conference*, Boca Raton, Florida, Spring 2003
5. Tutorial on Data Center Power Systems, *7x24 Exchange National Conference*, Phoenix, Arizona, Fall 2002
6. System Grounding Considerations for Data Centers, *NECA Show 2002*, Chicago, IL
7. Power System Transients Fundamentals, *Music City Power Quality Group*, Nashville, Tennessee, May 2001
8. Practical Power Quality Considerations in the Design of Building Electrical Systems, *Music City Power Quality Group*, Nashville, Tennessee, February 2000

PROFESSIONAL ORGANIZATIONS

IEEE Industry Applications Society
Music City Power Quality Group, Nashville, Tennessee, past president and program director
Tau Beta Pi, Engineering Honor Society
Pi Tau Sigma, Mechanical Engineering Honor Society