

VENKAT TIRUPATI

ENGINEERING | OPERATIONS | TECHNOLOGY LEADER

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📍 Austin, TX, USA



SUMMARY

- An accomplished and versatile leader with over 21 years of experience across grid and energy market operations, grid planning, IT and OT solutions, software development, strategic planning, cybersecurity, risk management and regulatory compliance.
- Demonstrated success in leading high-performing teams, cross-functional organizational groups, and industry-wide task forces and initiatives.
- Recognized for strong strategic acumen, clear direction-setting, and sound decision-making.
- Proven ability to bridge technical and business domains to drive operational excellence and innovation in complex, fast-evolving energy environments.

EXPERIENCE



Vice President, DevOps and Grid Transformation & previously Director/Sr. Director, Grid and Market Solutions

ERCOT

📅 2020 - Present 📍 Austin, United States

Electric Power Grid & Market Operator of Texas

- Established the GRIT (Grid Research, Innovation, and Transformation) organization to drive forward-looking strategy and prepare the company for the evolving energy future.
- Established multiple strategic partnerships and collaboration agreements with leading vendors and academic institutions.
- Serve 200+ team members working on Technology Development and Operations Support. Responsible for technical roadmaps, SDLC processes & vendor management.
- Delivered several high impact projects on-time and within budget.



Director, Line of Business & previously Manager, Market Systems and Supervisor, EMS & Advanced Applications

Lower Colorado River Authority 📅 2014 - 2020 📍 Austin, United States

Produce and Deliver Electric Power to Texans

- Aligned digital services strategic and operating plans, goals, objectives, priorities and procedures with strategic goals and objectives of lines of business, wholesale power and water.
- Championed the adoption of data analytics and AI/ML technologies, leading key implementation initiatives such as PM for power plants.
- Successfully led the upgrades of Energy Management System (EMS) and Generation Management System (GMS) on-time and within budget.
- Taught Error Elimination Tools and Human Performance Improvement classes.



Senior Reliability Engineer

North American Electric Reliability Corporation

📅 2012 - 2014 📍 Atlanta, United States

Electric Reliability Organization

- Led the assessment of 100+ events that are reported to NERC through the Event Analysis (EA) program, to determine the contributing and root causes.
- Developed 10+ reliability risk mitigation strategies and disseminated to industry stakeholders.



Power System Applications SW Engineer/Sr. SW Engineer

Siemens 📅 2004 - 2012 📍 Minneapolis, United States

Power Transmission and Distribution

- Implemented numerous cutting-edge solutions in the advanced network applications and operator training simulator modules of grid management products.
- Acted as technical lead across diverse projects, driving task definition, timeline management, stakeholder communication, and team enablement through delivery and support.
- Ran system planning and protection studies for various utility customers.

MY LIFE PHILOSOPHY

To Be, To Do, To See & To Tell

SKILLS

Grid and Market Operations

Strategic Planning

Risk Management

Technology Management

Innovation & Transformation

Grid Planning

DevSecOps

Data Analytics & AI/ML

Project Management

Business Architecture

AWARDS



Outstanding IT Manager, 2019 Texas Public Sector CIO Academy

EDUCATION



Master of Business Administration

Massachusetts Institute of Technology

📅 2021 - 2023 📍 Cambridge, United States



Master of Science in Electrical Engineering

Illinois Institute of Technology

📅 2002 - 2004 📍 Chicago, United States



Bachelor of Engineering, Electrical

University of Mumbai

📅 1998 - 2002 📍 Mumbai, India

CERTIFICATION

Professional Engineer

Texas Board of Professional Engineers & Land Surveyors

RECENT SPEAKING ENGAGEMENTS



Keynote presentation at Energy Systems Integration Group Fall Technical Workshop

📅 04/2025

Challenges and Opportunities in the Texas Power Grid - ERCOT perspective



Distributech - Panel Discussion

📅 03/2025

Inside the ISOs - Grid Operators perspective on energy transition



Invited Talk at AAAI conference for Artificial Intelligence

📅 02/2025

The Essential role of explainable AI in Power Systems Applications