



Exponent[®]
Engineering & Scientific Consulting

Pedram Pourmand

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Professional Profile

Pedram Pourmand is a construction consulting expert specializing in electric sector projects, including utility-scale renewables, Battery Energy Storage Systems (BESS), and data centers.

Core Expertise:

Risk Management: Develops comprehensive risk registers and mitigation strategies using qualitative assessments and quantitative methods (Monte Carlo simulations, fault tree, etc.). Tracks performance through Key Risk Indicators (KRIs) and dynamic dashboards, enabling real-time monitoring and risk-informed decision-making.

Cost & Budget Management: Creates dynamic cost models accounting for commodity volatility and project risks. Critical Path Method (CPM) scheduling in Primavera P6 and Microsoft Project. Uses Power BI to visualize budget performance and forecast metrics, with particular focus on schedule constrained Battery Energy Storage System (BESS) and data center projects.

Strategic Planning: Guides feasibility studies and Return on Investment (ROI) analyses for utility and refinery projects. Develops multidimensional financial models incorporating scenario analyses for energy prices, carbon pricing, and demand forecasts.

Integrated Approach: Synthesizes risk management, cost estimation, data analysis, and procurement into unified solutions. Conducts multi-disciplinary workshops and maintains governance models using Power BI dashboards to track Earned Value, cash flow, and supplier performance.

Academic Credentials & Professional Honors

M.B.A., Business, University of Southern California, 2006

B.S., Mechanical Engineering, University of California, Los Angeles (UCLA), 2001

Prior Experience

Project Manager, SCE (Southern California Edison) 2007-2025

Mechanical Engineer, ExxonMobil, 2001-2007

Project Experience

Data Center Grid Interconnection – Spearheaded interconnection construction for 200MW data center facility, coordinating multi-disciplinary risk workshops with engineering and project teams. Developed Primavera P6 schedule risk analyses to identify critical path dependencies and schedule variances. Mitigated queue position delays through proactive stakeholder engagement, preserving project timelines.

Utility-Scale BESS Deployment - Managed risk assessment and mitigation for 100MW battery storage facility interconnection, developing comprehensive risk registers tracking component pricing volatility. Implemented Monte Carlo simulations to forecast project delays and budget impacts, and securing stakeholder approval.

Refinery Expansion Risk Management Directed risk quantification efforts for \$300M petroleum refinery upgrades, translating qualitative operational hazards into financial exposures. Facilitated executive steering committee decisions through probabilistic cost and schedule forecasts. Institutionalized risk culture through team training on register maintenance and assessment techniques.