

**Srinivasan N. Ganesan, M.S., P.E.**

**Senior Engineer, Kenexis DMCC**

### Fields of Competence

Safety Instrumented System Engineering  
Process Hazards Analysis (PHA)  
Layer of Protection Analysis (LOPA)  
Safety Requirements Specification (SRS)  
Process Safety Management  
Chemical Engineering  
Process Operation  
Project Execution

### Experience Summary

**Mr. Ganesan** is a chemical engineer with over fifteen years of experience in the design, engineering, operation and maintenance of chemical process units. Mr. Ganesan is a Senior Engineer of Kenexis DMCC, and is responsible for sales, marketing, and execution of Kenexis' services in the Middle East, including UAE, Qatar, Oman, Bahrain, Kuwait and Saudi Arabia. Mr. Ganesan began his career with L&T Ltd., a premier Engineering, Procurement and Construction (EPC) firm in India. At L&T, he was involved in the design, engineering, and commissioning of numerous spray drying units for food, pharmaceutical and chemical industries. He left L&T to join HPCL, a Fortune 500 crude oil refining, marketing, and distribution company in India. At the company's flagship refinery in Mumbai, Mr. Ganesan was a production superintendent operating crude oil distillation units using modern state-of-the-art Distributed Control Systems (DCS). Mr. Ganesan's career in the United States is also rich with diverse experience in the areas of process operation, troubleshooting and project execution in power generation and oil refining industries. During his time with AEP, he provided round-the-clock engineering support to water chemistry issues for several of the company's coal-fired generating stations across the Midwest. He was responsible for preparing event-specific root cause failure analysis reports with clear-cut recommendations to prevent reoccurrence of similar initiating events. Prior to joining Kenexis, Mr. Ganesan gained experience operating a novel used-motor-oil refinery in Central Ohio.

### Credentials

B.Tech., Chemical Engineering, Anna University (India), 1994  
M.S., Chemical Engineering, The Ohio State University, 2002  
Registered Professional Engineer (Chemical Engineering), State of Ohio  
Qualified on Safety Instrumented System – Front End Engineering & Design Part 1 and Part 2

### Affiliations

American Institute of Chemical Engineers (AIChE)

### Key Assignments

During his time with L&T, Mr. Ganesan participated in startups of new spray drying units providing engineering support at various customer sites. He operated crude oil distillation units at HPCL's Mumbai refinery and participated in extensive maintenance activities during the refinery's turnaround.

At The Ohio State University, he developed a novel approach for data rectification for steady state systems with multirate data, and he compared the performance of a multiscale data rectification algorithm for dynamic systems involving multirate data with those of standard time-recursive single scale algorithms. He also assisted course instructors in the teaching of undergraduate senior courses such as process control and process design.

At AEP, Mr. Ganesan conducted engineering studies to validate increases in demand on water treatment plant capacities, and he proposed alternative recommendations for upgrading plant capacities. He also developed and implemented chemical cleaning procedures for several coal-fired boilers across the company's fleet in addition to providing round-the-clock site support during chemical cleaning.

Mr. Ganesan is now using these skills at Kenexis to facilitate PHA/HAZOP studies. He uses Layer of Protection Analysis (LOPA) to select targets for Safety Integrity Levels (SIL). He verifies the selected SIL targets and develops the design basis for Safety Instrumented Systems (SIS). He is also actively involved in the development of Safety Requirements Specifications (SRS), and in some cases, development of functional test plan and PSAT assistance.