Ashok Gopalakrishnan

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Career Highlights

- Over 25 years of engineering leadership, business development and project delivery experience in the electric power systems industry.
- Proven experience in building international, cross-functional product development, services and project teams.
- Provided technical leadership in winning several key services and software license projects for Siemens Grid Software, Quanta Technology, LLC (Danovo Energy Solutions) and Electrocon International, Inc.
- Established new business portfolios, such as the protection consulting business; collaborated with sales teams to develop marketing collateral and identify target clients.
- Skilled in proposal writing, pipeline development and maintenance, resource management and utilization, and margin and revenue monitoring.
- Intense focus on making the customer successful and gaining value from project and product deliverables.
- Extensive experience in product management (PLM), software development (R&D) and customer support.
- Principal Investigator in and recipient of a US Department of Energy Small Business Innovations Research award in 2009-2010; this led to the development of a revenue generating module in PSS®CAPE.

Professional Experience

- February 2026 to present: Founder, Grid Integrity Solutions, Inc.
- September 2024 to February 2026: Head of Siemens Grid Software Professional Services
- July 2022 to August 2024: Head of Siemens Grid Software Integration & Services portfolio for Grid Resilience products (PSS®CAPE, SIGUARD®DSA).
- October 2019 – June 2022: Director of Siemens PSS®CAPE software product group, responsible for overall product growth, development, customer service and projects.
- May 2018 – September 2019: Senior Manager Siemens PTI consulting group, responsible for establishing protection consulting business portfolio.
- February 2014 – April 2018: Executive Advisor, Quanta Technology, LLC, responsible for protection consulting projects, business development and customer account advisory.
- May 1999 – January 2014: Research & Development Engineer, Electrocon International, Inc., responsible for CAPE product development, application engineering and consulting projects.

Areas of Expertise

- Protection and Control consulting
- Protection solutions for renewable energy systems
- NERC PRC compliance
- Software and application development
- Business development
- Proposal development, bid management
- Process and engineering automation
- Teaching protection courses in a university setting
- Project delivery
- Training and mentorship; people management
- User-group meetings organization & management

Education

- PhD, Electrical Engineering (Power Systems), Texas A&M University, College Station, TX, 2001
- MS, Electrical Engineering, Texas A&M University, College Station, TX, 1995
- BS, Electrical Engineering, Birla Institute of Technology and Science, Pilani, India, 1989

Professional Memberships and Activities

- Senior Member, IEEE and Power and Energy Society
- Member, CIGRE
- Contributing member for several IEEE Power and Energy Society (PES) Power System Relaying and Control (PSRC) Committee Reports

Publications

1. "Application of Gridscale X Advanced Protection Assessment for Data Center Protection Coordination Studies and Related Experiences," 2025 CIGRE Grid of the Future Symposium, Denver, CO, November 10-13, 2025 (coauthors: S. C. Vegunta, G. Scarpati, N. Bhatia).

2. "Adaptive Protection System with On-Line Protection Security Assessment in Distribution Systems with High Penetration of DERs," 2018 CIGRE Grid of the Future Symposium, Reston, VA, October 28-31, 2018 (coauthors: Y. Zhu, W. Dias, R. Krebs, R. Ganjavi, and M. Mangold).

3. "Adaptive Protection for High Levels of DER Integration," i-PCGRID Workshop 2017, San Francisco, CA, March 29-31, 2017 (coauthor: J. Shiles).

4. "A New Technique for Evaluating Wide Area Protection Coordination," presented at the 69th Annual Georgia Tech Protective Relay Conference, Atlanta, GA, April 27-May 1, 2015 (coauthors: P. Nyombi, G. Sarkinen, and S. Alaeddini).

5. "Simulating the Smart Electric Power Grid of the 21st Century," presented at the CIGRE General Session 2014, Paris, France, August 24-29, 2014 (coauthors: S. Aquiles-Perez, D. MacGregor, D. Coleman, P. McGuire, K. Jones, J. Senthil, J. Feltes, G. Pietrow, and A. Bose).

6. "Simulating the Smart Electric Power Grid of the 21st Century – Bridging the Gap between Protection and Planning," 40th Annual Western Protective Relay Conference, Spokane, WA, October 15-17, 2013 (coauthors: S. Aquiles-Perez, D. MacGregor, D. Coleman, P. McGuire, K. Jones, J. Senthil, J. Feltes, G. Pietrow, and A. Bose).

7. "Automated Evaluation of PRC 023-2 Requirements," 67th Annual Georgia Tech Protective Relay Conference, Atlanta, GA, May 8-10, 2013 (coauthors: S. Alaeddini, T. Chang, F. Katiraei, C. Finch, and M. Stanbro).

8. "A Comparative Analysis of Wide Area Protection Coordination versus Conventional Methods for Protection Coordination of Transmission Lines," 65th Annual Georgia Tech Protective Relay Conference, Atlanta, GA, May 11-13, 2011 (coauthors: F. Katiraei, J. Appleyard, J. Holbach, M. Malki, B. Gwyn, M. Stanbro, D. Cirka, and P. McGuire).

9. "Development of a Systematic Approach for Wide Area Protection Coordination of Transmission Lines," 37th Annual Western Protective Relay Conference, Spokane, WA, October 19-21, 2010 (coauthors: F. Katiraei, J. Appleyard, B. Gwyn, M. Stanbro, and D. Cirka).

10. "Challenges Encountered in the Operation Analysis and Settings of a Parallel Three-terminal Line Application," 36th Annual Western Protective Relay Conference, Spokane, WA, October 20-22, 2009 (coauthors: J. Pond and T. Giuliante).

11. "Near Real-Time Analysis of Operating Conditions Affecting Protective Equipment Reliability," 61st Georgia Tech Protective Relaying Conference, Atlanta, GA, May 2-4, 2007 (coauthors: R. W. Patterson, S. L. Goudelock, H. G. Sathyanarayana, T. Mathur, and J. Quada).

12. "An Off-line Analysis of System Operating Conditions Affecting Relay Reliability," 15th International Conference on Power System Protection, Bled, Slovenia, September 6-8, 2006 (coauthor: R. W. Patterson).

13. "A Stepped-Event Technique for Simulating Protection System Responses," CIGRÉ General Session, Paris, France, 29 August-3 September 2004 (coauthors: D. M. MacGregor, J. J. Quada, and D. B. Coleman).

14. "Automatically Setting Distance Relays for use on Series Compensated Lines," VII Seminário Técnico de Proteção e Controle, June 22-27, 2003 (coauthors: G. Arruda and P. R. Morais).

15. “Implementation of a MOV Computation Method within a Protection System Simulation,” in Proceedings of the Seventh International Conference on Developments in Power System Protection, April 2001, RAI, Amsterdam, The Netherlands, pp. 363-366 (coauthors: D. M. MacGregor and T. Thor).

16. “Fault Location using the Distributed Parameter Transmission Line Model,” IEEE Transactions on Power Delivery, vol. 15, no. 4, October 2000, pp. 1169-1174 (coauthors: M. Kezunovic, S. M. McKenna, and D. Hamai).

17. “Fault Location and Parameter Estimation on Overhead Transmission Lines using Synchronized Sampling,” PhD dissertation, Department of Electrical Engineering, Texas A&M University, College Station, TX, 2000.

18. “Transmission Line Modeling Requirements for Testing New Fault Location Algorithms using Digital Simulators,” Second International Conference on Digital Power System Simulators, Montreal, QC, Canada, May 1997 (coauthors: M. Kezunovic, S. M. McKenna, and D. Hamai).

19. “A Digital Simulator Design for Real-Time and Open-Loop Applications,” First International Conference on Digital Power System Simulators, Texas A&M University, College Station, TX, April 1995 (coauthors: N. A. Izquierdo, M. Kezunovic, Z. Galijasevic, F. Ji, and J. Domaszewicz).

20. “Design Characteristics of an Advanced Two-Terminal Digital Simulator for Relay Testing,” First International Conference on Digital Power System Simulators, Texas A&M University, College Station, TX, April 1995 (coauthors: M. Kezunovic, J. Domaszewicz, Q. Chen, F. Ji, X. Qi, and I. Rikalo).

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