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|  | Praveen Cheekatamarla | |  |
| Contact Knoxville, TN 37934  716-207-0742  cheekatamapk@ornl.gov | | Profile Chemical Engineer with over 20 years of experience in the dynamic and ever-evolving energy industry. A versatile professional deeply involved in various facets of business operations, demonstrating a unique blend of technical leadership, research and product development, strategic management, business analysis, and customer interface skills. Known for expertise in enhancing Energy Efficiency, reducing Carbon footprint, promoting Sustainability, ensuring Resiliency, optimizing Costs, and maximizing Reliability in energy systems. A hands-on, proactive team player and manager with an extensive background in personnel development, team building, and growth strategy. Possesses exceptional management, communication, and interpersonal skills, driving successful outcomes in complex and multifaceted projects involving multi-disciplinary engineering fields. | |
| Education Ph.D., Chemical Engineering  The University of Alabama, 2004 Key Skills Hybrid Energy Systems  Power Generation and Management  Chemical Reaction Engineering  Product Development  Thermodynamic Modeling  Project Management  Commercialization  Problem-solving | | ExperienceOCT 2019 - Present Senior R&D Staff | MEI Group, BTR Section, ORNL, TN   * Building equipment research for clean energy, efficiency, and resiliency – Energy storage, Carbon removal, Hydrogen, Drying, Vapor Compression, Grid Resiliency, and Refrigerants. * Clean combustion technologies, renewable fuels, micro-CHP, SOFC/SOEC * Application, development, and integration of sensors, polymer materials, piezoelectric ceramics, multifunctional materials in improving the performance of building equipment with different primary energy resources.  Aug 2009 – sep 2019 Director, Research and Product Development | Atrex Energy, Walpole, MA   * Led a multi-disciplinary team of 20 engineers and scientists – Hybrid energy efficient SOFC systems design, development, commercialization and deployment. * DC power generation, energy storage, load management, and integration in remote facilities * Functional materials and catalysts for various chemical reactions * Sensing and hybrid energy control system * Technical Leadership, Business Development, Strategic Management, Customer Interactions * Sponsors – DOD, DOE, VC  Apr 2005 – aug 2009 Lead Scientist | ND Energy, Buffalo, NY   * Led the SOFC development team consisting of 8 engineers/scientists. * Principal Investigator/Program Manager - DOE and DOD projects - Portable Power generation product development  JUN 2004 - APR 2005 Postdoctoral Researcher | WSU, Pullman, WA   * Materials development for hydrogen generation and purification from transportation fuels  mAY 2001 – JAN 2002 Research Scientist | Orica USA, Watkins, CO   * Catalytically enhanced, high energetic material based packaged composites and emulsion explosives. | |
|  | | Synergistic Activities and Honors  * Editorial board member, guest editor and active reviewer for technical journals * Panel member, keynote speaker at international conferences * Advisory panel member – DOE C2C program * ASHRAE – TC Secretary/Vice-chair, CO2 sequestration chapter author, Global climate change handbook subcommittee member * Member – ASHRAE, ACS, AICHE * Published a book and a book chapter * Member – Consortium for energy efficiency * ORNL POC – Methane emissions, led by Net Zero World Initiative | |
|  | | Publications  * More than 120 publications including: journal articles, book, book chapter, presentations, proceedings, reports * 1 issued patent, 2 pending patent applications * 2 provisional patent applications * 12 invention disclosures | |
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