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Dr. Vignesh Rajamani is an expert in the electromagnetic characterization and application of reverberation chambers with Exponent. A main thrust of his research and project experience in the area of reverberation chambers has been towards increasing test accuracy. His expertise includes statistical electromagnetics, validation and optimization techniques for computational electromagnetics, communication system testing in complex multipath environments, EMI/C Issues with Unmanned Aerial Systems, antenna systems and radio frequency (RF) design, and estimation probability of failure of electronic systems due to electromagnetic interference and compatibility.

In his role as a Manager at Exponent, he assists clients with identifying the root cause of the failures of electronic systems and providing guidance on possible solutions, especially in the area of EMI/C.

Dr. Rajamani is the President of the IEEE Electromagnetic Compatibility (EMC) Society and involved with several technical committees and educational activities in the EMC Society.

He served as the Vice President of Member Services for the IEEE Electromagnetic Compatibility (EMC) Society from 2014-2020. He is a Senior Member of IEEE and served as a distinguished lecturer for the IEEE EMC Society for term 2013-2014. He has lectured around the world on reverberation chamber test methodologies and has taught design engineering seminars for faculty and students at many universities focusing on challenges in engineering education and prepare the faculty to handle them by spreading a significant number of Project Based Learning (PBL) classes across the curriculum. Prior to joining Exponent, Vignesh was with Oklahoma State University as a Visiting Assistant Professor where he taught courses in engineering design and performed research in probability of failure of electronic systems in harsh electromagnetic environments. He has also taught the reverberation chamber course at OSU for the past 10 years and served as subject matter expert for various standard bodies.