



ITC-Egypt 2026 - Invited Talk

Half-Day Workshop on CubeSat Demonstration and Virtual Reality Experience

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ABSTRACT

The Half-Day Workshop on CubeSat Demonstration and Virtual Reality Experience is an interactive outreach initiative jointly organized by the IEEE AP-S SIGHT Committee and AP-S COPE in collaboration with the IEEE AP-S Cairo Chapter and the IEEE Egypt Section. The workshop is designed to inspire high school STEM students, undergraduate students, and early career engineers by providing an engaging introduction to CubeSat technology, space communications, and the role of antennas and propagation in modern satellite systems.

In addition to the technical content, the workshop highlights the humanitarian mission of the IEEE Antennas and Propagation Society (AP-S) SIGHT Committee by demonstrating how affordable space technologies can support sustainable development, disaster monitoring, environmental observation, agriculture, education, and global connectivity. Participants will also learn about opportunities for involvement in IEEE AP-S and its student and young professional activities.

The workshop aims to inspire the next generation of students and researchers to pursue careers in aerospace, communications, and applied electromagnetics. The program also strengthens local engagement with IEEE AP-S, promotes STEM education, and supports the AP Society's mission of advancing technology for humanity through education, outreach, and community impact.

BIO



Prof. Jawad Yaseen Siddiqui has over two decades of extensive teaching and research experience in applied electromagnetics, RF and microwave circuits, antennas and propagation. He has taught courses at several Universities in Canada and India.

He is currently a Senior Research Associate at the Royal Military College of Canada and served as an Adjunct Associate Professor in the Department of Electrical and Computer Engineering (ECE) at Queen's University, Canada. He also holds an Associate Professorship at the Institute of Radio Physics and Electronics, University of Calcutta, India, and is an Adjunct Faculty member at the Malaviya National

Institute of Technology, Jaipur. He has previously served as a Visiting Professor in the ECE Department at the University of Alberta, Edmonton.

Additionally, he has worked as a research associate in the ECE Department at Queen's University and as a postdoctoral fellow and research assistant at the Royal Military College of Canada. He has been actively involved in several research projects funded by the Department of National Defence (DND) and Defence Research and Development Canada (DRDC) in Canada.

He is the Chair of the AP-S SIGHT, a standing committee of the IEEE Antennas and Propagation Society (AP-S) and has served on several other committees within the Society. He has also been a member of the Meetings and Symposia Committee of the IEEE Microwave Theory and Technology Society (MTT-S) and served as the MTT-S representative on the IEEE Technical Activities Board (CPC) in 2021.

He is the recipient of the 2022 Institution of Electronics and Telecommunication Engineers (IETE)-S.N. Mitra Memorial Award for his contributions and leadership in radio broadcast science and technology. He also received the 2015 IEEE AP-S Ulrich L. Rohde Humanitarian Technical Field Project Award for excellence in the humanitarian use of technology. He is a Senior Member of IEEE and a member of IEEE Eta Kappa Nu (HKN). He has authored 150+ publications in peer-reviewed journals and conferences.