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She has published more than 150 international journal/conference papers. She is a recipient of the Canadian Commonwealth Scholarship/Fellowship and Bangladesh Academy of Science Gold Medal for her contribution in Science and Technology. Recently, her papers have received best paper awards in Biomedical Engineering tracks at TENCON 2017 and at IEEE WIECON-ECE 2016, in Humanitarian Challenge track at R10 HTC 2017.

She was the mentor of 1st/2nd prize winning projects in IEEE IAS CMD Contests (Robotics, Humanitarian) in 2017-2019, USA. She was the supervisor of 4th/5th rank winning teams in SPCUP competitions, ICASSP 2020 (Spain)/2015 (Australia). She is the recipient of 2019 R10 Humanitarian Activities Outstanding Volunteer Award, 2016 MGA Leadership Award 2015 WIE Inspiring Member Award, 2013 R10 WIE Professional Volunteer Award

She is the Chair, IEEE Bangladesh Section, 2020 Member, IEEE New Initiative Committee 2020 Chair, Women in SIGHT Working Group, 2020-22 Member, IEEE Signal Processing Society (SPS) Women in Signal Processing Committee, 2020 Member, IEEE WIE Senior Member Elevation Drive, 2019-2020 Member, IEEE WIE WePower Subcommittee, 2017-2020 IEEE PES Women in Power (WiP) IEEE Region 10 Regional representative, 2017, 2019 Communications Chair, IEEE SIGHT steering Committee, 2017-18 Chair, IEEE WIE Workshops Subcommittee, 2017-18 Member, IEEE Region 10 Subcommittees (WIE, Humanitarian Technology Activity, Education), 2016 IEEE Region 10 WIE Coordinator, General Chair, IEEE TENSYPMP 2020, IEEE SPICSCON 2019, IEEE PEEIACON 2019, General Chair: IEEE WIECON-ECE 2019, 2018, 2016, General Co-Chair, IEEE Region 10 HTC 2017 and IEEE WIECON-ECE 2017, Founder and TPC Chair: IEEE WIECON-ECE 2015, IEEE BECITHCON 2019, IEEE RAAIACON 2019, 2018-19 Member, Technical Committee, Image, Video, and Multimedia (IVM), Asia Pacific Signal and Information Processing Association (APSIPA), 2018 Editorial board member, IET Signal Processing, Founder & Chair, IEEE SPS, IAS Bangladesh Chapters, Co-founder & Vice-Chair, IEEE RAS, SSIT Bangladesh Chapters, Founder, Adviser, Nominations and Appointments Chair, WIE AG, IEEE Bangladesh Section. She has around 20 years of experience (more than 18 years as an IEEE volunteer) of leading impactful Technical, Professional, Educational, Industrial, Women Empowerment and Humanitarian Technology Projects at national/international levels.