



Dr. Fernando Guarín is a Distinguished Member of Technical Staff at Global Foundries in East Fishkill New York where he is currently leading the reliability team involved in the qualification of GlobalFoundries 5G mmW technology offerings, particularly 45RFSOI.

From 1980 until 1988 he worked in the Military and Aerospace Operations division of National Semiconductor Corporation. In 1988 he joined IBM's microelectronics division where he worked in the reliability physics and modeling of Advanced Bipolar, CMOS and Silicon Germanium BiCMOS technologies. He retired from the IBM Semiconductor Research Development Center SRDC in 2016 after 27 years with the reliability group where he was a Senior Member of Technical Staff. He earned his BSEE from the "Pontificia Universidad Javeriana", in Bogotá, Colombia, the M.S.E.E. degree from the University of Arizona, and the Ph.D. in Electrical Engineering from Columbia University, NY. He has been actively working

in semiconductor reliability for over 38 years. He has authored 15 patents, one trade secret, five book chapters and over 2000 citation for his publications.

Dr. Guarín is an IEEE Fellow, Distinguished Lecturer for the IEEE Electron Device Society EDS, where he has served in many capacities including; member of the IEEE's EDS Board of governors, chair of the EDS Education Committee, Secretary for EDS. He was the EDS President 2018-2019 and is currently the Jr. Past president of EDS.