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Fujitsu Laboratories of America, Sunnyvale, California, at NTT's Device Research Laboratories in Atsugi, Japan, and at Robert Bosch GmbH in Germany, exploring technologies and circuits for 128GBaud fiber-optic systems, 300Gb/s mm-wave radio transceivers, and radar sensors.

Dr. Voinigescu co-founded and was the CTO of two fabless semiconductor start-ups: Quake Technologies and Peraso Technologies. He was a member of the ITRS RF/AMS Committee, of the ExCom of IEEE CISICS, and is a member of the ExCom of the IEEE BCTM. He received NORTEL's President Award for Innovation in 1996 and is a co-recipient of the Best Paper Award at the 2001 IEEE CICC, the 2005 IEEE CSICS, and of the Beatrice Winner Award at the 2008 IEEE ISSCC. His students have won numerous Best Student Paper awards, most recently at IEEE IMS 2017. In 2013 he was recognized with the ITAC Lifetime Career Award for his contributions to the Canadian Semiconductor Industry.