

Ron D. Katznelson, Ph.D.

Professional Experience

Dr. Katznelson is the Founder and President of Bi-Level Technologies in Encinitas, CA. From 1990 to 2005, he was Chief Technology Officer, Founder and Chairman of Broadband Innovations, (formerly known as MCSI), where he led the company's entry into the digital RF CATV industry. From 1983 to 1989, he was with the VideoCipher Division of M/A-COM Linkabit Corp., later acquired by General Instrument Corp. (GIC), where he served as Director, New Technology Development. At GIC, he directed R&D in the areas of Advanced Television Systems that led to GIC's video compression technology, now forming the core of the MPEG-2 standard and a basis for the Grand-Alliance ATSC High Definition Television standard. His responsibilities also included the management and development of the VideoCipher Division's intellectual property portfolio as well as representation in industry groups and standard bodies.

From 1982 to 1985, Dr. Katznelson was a Professor of Electrical Engineering at the University of California, San Diego (UCSD). He taught courses in Linear System Analysis, Probability and Stochastic Processes.

Publications and Research

Dr. Katznelson co-authored a book and authored numerous technical publications in areas including semiconductor device physics, digital RF signal processing, satellite television transmission techniques, and HDTV transmission systems. His recent publications available at <http://works.bepress.com/rkatznelson/> also include articles on product lifecycles and patent law. He is a named inventor in more than 25 U.S. patents and his research and development interests include optimal signal design, digital RF signal processing, digital television, signal representation & sampling theory, intellectual property management and patent law.

Memberships and Boards

Dr. Katznelson served as a member of CableLabs' DOCSIS Working Group and a coauthor of the DOCSIS downstream digital transmission specifications. He is an advisor to high technology firms, a member of the University of California Library Advisory Board, and a member of the San Diego Intellectual Property Law Association.

Education and interests

Ron D. Katznelson received his Ph.D. degree in Electrical Engineering (communication theory and systems) in 1982 from the University of California, San Diego, CA. He received a dual BSc. degree in Mathematics and Physics in 1975 and the MSc. degree in Applied Semiconductor Physics in 1977, both from the Hebrew University in Jerusalem, Israel. He is a licensed private pilot and a licensed ham radio operator.

Contact

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