

Mehdi Hatamian received his B.S. degree in Electrical Engineering from Arya-Mehr University of Technology in 1977, and M.S. and Ph.D. degrees in Electrical Engineering from the University of Michigan in Ann Arbor, in 1978 and 1982 respectively.

From 1978 to 1982, he worked for NASA's Space Shuttle program, developing hardware and software designs to support in-flight biomedical experiments. From 1982 to 1991, he was a member of the Visual Communications Research and the VLSI Systems Research departments of Bell Laboratories, where he was named Distinguished Member of the Technical Staff in 1988.

From 1991 to 1996, he was Vice President of Technology at Silicon Design Experts (SDE), Inc., a company he co-founded. SDE was acquired by Level One Corp. which was later acquired by Intel Corp.

From Aug. 1996 to Feb. 2016 he was with Broadcom Corporation where his most recent position was Senior VP of Engineering and a member of the Office of the CTO. Following the acquisition of Broadcom Corp. by AVAGO Technologies, the combined company was named Broadcom Limited where he served as the Chief Scientist of Central Engineering and Fellow from Feb. 2016 to Aug. 2016. He is currently the CEO of 2Pi-Sigma Corporation, a biomedical company he founded in Sep. 2016 working on next generation cancer screening devices and technologies.

Mehdi Hatamian's general areas of expertise and interest are semiconductors, high-speed VLSI signal processing, full-custom and low power integrated circuit and architecture design, image processing and compression, adaptive filtering, Ethernet transceiver design, high-density and high-speed CMOS design, high temperature superconductors, and biomedical electronics. His most recent areas of focus are in sensors and systems for the detection and quantification of proteins as well as in 5G communication systems. He has published extensively in his areas of expertise and holds 246 issued patents and numerous patents pending. He has been elected to the National Academy of Engineering for contributions to the development of integrated circuits for video, communications, and digital signal processing. He is a Life Fellow of the Institute of Electrical and Electronics Engineers (IEEE); he received his Fellow award for his contribution to the design of high-performance digital signal processors. He received the "#1 Patent Holder" award from Broadcom Corp. for 2005-06 and 2006-07, the Broadcom Fellow award in 2011, and the University of Michigan's

ECE Division Alumni Merit Award for 2008. He is the recipient of the University of Michigan's 2024 ECE Alumni Impact Award. He served on the Engineering Advisory Council of the University of Michigan from 2006 to 2012. He has participated in numerous national and international conferences and other professional activities in his field as keynote speaker, organizer, session chair, panelist, invited lecturer, and moderator. He served on the board of directors of Sensei Biotherapeutics (formerly Panacea Pharmaceuticals) from 2001 to 2020 and Pharmacokinesis, Inc. He is the chief scientific advisor of Vivera Pharmaceuticals, Inc., an executive advisor to Peltbeam Inc, an advisor to Parthian Energy, Executive Advisor to IC Photonics, and on the advisory board of Athanor Biosciences.

Selected highlights of Mehdi Hatamian's Accomplishments:

- Work History: NASA, U of M, Bell Labs, Princeton University, SDE Inc., Broadcom, FIU, 2Pi-Sigma Corp.
- 49 years of professional experience and expertise in: circuit design, signal processing, communication, integrated circuits and semiconductors, high speed processors, SoC chips, biomedical electronics, drug delivery systems, microfluidics, sensors, image processing, high temperature superconductors, system design, and micro controllers
- Member of National Academy of Engineering
- Life Fellow of IEEE
- Fellow of Broadcom
- 246 Issued patents, 69 publications. More than 90% of these patents have been used in products worldwide and cover the following subject areas: Electronic circuits and systems, integrated semiconductor circuits and SoC chips, signal processing algorithms and systems, digital communication systems, adaptive circuits, Image processing algorithms and systems, Gigabit Ethernet transceivers, high speed pipelined processing systems, Fast Ethernet transceivers, modular water desalination systems, 5G wireless communication systems, integrated circuit library cells and layout techniques, IoT devices, wine storage devices, magnetic hook systems, drug and vaccine delivery medical devices, IV injection devices, dose-controlled drug delivery devices to prevent opioid abuse, microfluidic chips and devices, lateral flow assay technologies, exosome-based biomarker detection assays.
- Sharif University of Technology's highest scholarship

- U of M graduate school full fellowship
- Broadcom #1 Patent Holder Award, 2005 and 2006.
- University of Michigan's ECE Alumni Merit Award, 2008.
- Honorary Ph.D., Dubna International University, Russia
- U of M's first VLSI chip
- World's first cable modem
- World's first HDTV chip set
- World's first real-time video communication chip
- World's first 100 Base-Tx (Fast Ethernet) Decision Feedback Equalizer
- World's first Gigabit Ethernet transceiver DSP
- Pioneering work on very high-speed pipelined signal processing and computing circuits and algorithms
- Designer and creator of Broadcom's circuit cell library
- Medical device inventions, design, and development:
 - Intradermal drug delivery devices
 - IV delivery systems
 - Dose controlled drug delivery devices
 - RFID-based sample collection, blood transfusion, and patient ID components and systems
 - Next Generation Lateral Flow platform technology
 - Exosome-based detection assays
 - Software programmable microfluidics
- As of 2026, the work in these areas had been shipped in an estimated 28 billion integrated circuits and SoC chips used in electronic products covering all aspects of data/voice/video communication and internet traffic around the world.