



Photo courtesy of Henry Samueli

# Henry Samueli

## Broadband Communications

U.S. PATENT NO. 5,754,591: System for, and method of, processing quadrature amplitude modulated signals

**Inducted in 2026** Born: Sept. 20, 1954

Electrical engineer Henry Samueli advanced broadband communications, creating solutions that enabled affordable, high-speed digital data transmission to homes and businesses. He is the co-founder of Broadcom Inc., a global leader in wired and wireless communications.



**Full Bio:** <https://www.invent.org/inductees/henry-samueli>

### Primary Connections:

- Broadcom (acquired by Avago Technologies in 2016): Co-Founder (1991); served in executive leadership roles including CTO and Vice President of Research and Development; Board Chair (2018-present)
- PairGain Technologies Inc.: Co-Founder and Chief Scientist, 1988-91; Consultant, 1991-94
- University of California, Los Angeles: Professor of Electrical Engineering, 1985-95
- TRW Inc.: Engineering Management, Electronics and Technology Division, 1980-85

### Education:

- University of California, Los Angeles: B.S., Electrical Engineering, 1975; M.S., Electrical Engineering, 1976; Ph.D., Electrical Engineering, 1980

### Key Memberships/Awards:

- National Hockey League, Board of Governors
- Samueli Foundation, Co-Founder and Board Director
- UCLA Samueli School of Engineering, Dean's Executive Board
- University of California, Irvine, Samueli School of Engineering, Dean's Leadership Council
- IEEE Medal of Honor, 2025
- IEEE Founders Medal, 2021
- Marconi Prize, 2012

### Things You Should Know:

- Samueli was born in Buffalo, New York, in 1954, to parents who had immigrated to the U.S. from Poland.
- In 1980, Samueli joined TRW Inc., where he worked on military broadband communications systems.
- In 1985, he established a multidisciplinary research program at the University of California, Los Angeles (UCLA), to develop chips for digital broadband.
- Samueli co-founded Broadcom in 1991 and the company's first major commercial client was Scientific Atlanta Inc.
- By 2000, Broadcom chips were in 90% of all cable modems and television set-top boxes and in more than 60% of all LAN networks.
- From 1998 to 2004, Broadcom acquired 24 fabless semiconductor firms that designed communications chips to add expertise in areas like fiber-optic networks and software.
- In 2016, Broadcom was acquired by Avago Technologies Ltd. for \$37 billion.
- Samueli is the owner of the National Hockey League franchise Anaheim Ducks, and the team won the Stanley Cup in his second year of ownership.
- Known for their generous philanthropy, Samueli and his wife Susan signed the Giving Pledge, and are committed to supporting academic institutions and STEM education.