

## **IEEE CORPORATE INNOVATION AWARD RECIPIENTS**

2022 - THE ARGO PROGRAM—San Diego, California, USA	“For innovation in large-scale autonomous observations in oceanography with global impacts in marine and climate science and technology.”
2021 - TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LIMITED—Hsinchu, Taiwan	“For leadership in 7 nanometer semiconductor foundry technology, enabling customers’ innovations in widespread applications.”
2020 – APPLE, INC. Cupertino, California, USA	“For innovations in the design of high-performance and energy-efficient custom silicon for mobile applications.”
2019 – BOSE CORPORATION Framingham, Massachusetts, USA	“For sustained innovation and pioneering research in audio technology leading to affordable, high-performance products.”
2018 – PIXAR ANIMATION STUDIOS Emeryville, California, USA	“For a long history of pioneering innovations in computer animation and computer graphics.”
2017 - ANALOG DEVICES, INC. Norwood, Massachusetts, USA	“For sustained innovation and leadership in the development of high-performance data converter technology and products.”
2016 – INTEL CORPORATION Hillsboro, Oregon, USA	“For pioneering the use of high-k metal gate and tri-gate transistor technologies in high-volume manufacturing.”
2015 - SANDISK CORPORATION Milpitas, California, USA	“For pioneering innovation, development, and deployment of Flash Memory Technology, which has profoundly changed the world.”
2014 - DEFENSE ADVANCED RESEARCH PROJECTS (DARPA) Arlington, Virginia, USA	“For many decades driving world-changing technological innovations.”
2013 - APPLIED MATERIALS, INC. Santa Clara, CA, USA	“For innovation and leadership in plasma-enhanced chemical vapor deposition (PECVD) technology for flat panel display manufacturing.”
2012 – PANASONIC CORPORATION Osaka, Japan	“For developing and commercializing high-performance heterojunction solar cell technology (HIT).”

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- 2011 - IMEC,  
Leuven, Belgium "For continuous contributions to CMOS technology and for innovations in global business development and university-industry collaborations."
- 2010 - SAMSUNG ELECTRONICS CO.,  
LTD., Suwon-city, Gyeonggi-do,  
Korea "For the innovative conception, development and deployment of Mobile WiMAX technology that enables the true ubiquity of mobile communications."
- 2009 - CORNING, INC  
Corning, NY, USA "For sustained, outstanding contributions to optical fiber technology and in particular the recent development of highly flexible fiber enabling application breakthroughs"
- AND
- IBM T. J. WATSON RESEARCH  
CENTER  
Yorktown Heights, NY, USA "For long-term commitment to pioneering research, innovative development, and commercialization of speech recognition."
- 2008 - RESEARCH IN MOTION  
Waterloo, Ontario, Canada "For developing and promoting the BlackBerry, and thereby transforming the mobile work environment."
- 2007 - TOYOTA MOTOR CORPORATION  
Toyota-City, Aichi, Japan "For the development and promotion of a hybrid combustion-electric power train for automobiles that significantly improves fuel economy and reduces emissions without sacrificing vehicle dynamic performance."
- AND
- TEXAS INSTRUMENTS DLP  
Products  
Plano, TX "For pioneering innovation, design, and development of the Digital Light Processing, DLP®, technology for a broad range of display applications."
- 2006 - ARM LIMITED  
Cambridge, England "For creating the ARM microprocessor technology that has been successfully embedded into a broad spectrum of today's digital consumer electronic products."
- 2005 - ADVANCED MICRO DEVICES,  
INC., Austin, TX "For innovations in the evolution of the x86 microprocessors and its extension to a 64-bit architecture."

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NTT DoCoMo, Inc., Tokyo, Japan "For innovations in the planning, development, and deployment of i-mode, an international leader in mobile Internet service."

2004 - HEWLETT PACKARD  
Palo Alto, CA, USA "For innovation of a total system of thermal inkjet printing technology and its mass commercialization."

AND

QUALCOMM, INC.  
San Diego, CA, USA "For innovation and leadership in Code Division Multiple Access (CDMA) technology for mobile wireless communications."

2003 - XEROX CORPORATION  
Stamford, CT, USA "For its DocuTech product line which unified digital electronics, computing and communications with xerography to create the Print on Demand Industry."

AND

TITAN CORPORATION  
San Diego, CA, USA "For leadership in developing electron beam technology and revolutionizing the fields of medical sterilization, food safety, and bio-security of the mail."

2002 - CADENCE DESIGN SYSTEMS  
San Jose, CA, USA "For leadership in the innovation and distribution of electronic design automation tools and systems."

AND

SEIKO EPSON CORPORATION  
Suwa-shi, Nagano-ken, Japan "For pioneering development of electronic watches based on quartz crystal oscillators and for resulting contributions to the low power consumption electronics industry."

AND

TAIWAN SEMICONDUCTOR  
MANUFACTURING COMPANY,  
LTD.,  
Hsin-Chu, Taiwan "For pioneering and realizing the dedicated IC wafer fabrication business thereby leading worldwide to numerous fabless IC companies."

2001 - NO AWARD

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| 2000 - LUCENT TECHNOLOGIES<br>Holmdel, NJ, USA                                   | "For pioneering, further development and first introduction of dense wavelength division multiplexed (DWDM) optical networking systems."   |
| AND  |  |
| SUN MICROSYSTEMS<br>Palo Alto, CA, USA   | "For innovative concepts and the introduction of unique products for the processing and sharing of information."   |
| 1999 - BBN TECHNOLOGIES<br>Cambridge, MA , USA                                   | "For pioneering contributions to computer networking technology through the development of the first packet switches, the ARPANET Interface Message Processor (IMP) and Terminal Interface Message Processor (TIP)."                 |
| 1999 - NOKIA CORPORATION<br>Espoo, Finland                                       | "For creation of a new class of integrated communication devices as exemplified by the Nokia 9000 Communicator, and for leadership in the development of cellular network systems."  |
| 1998 - MICROSOFT CORPORATION<br>Redmond, WA, USA                                 | "For making computer technology accessible to the home, business and classroom through its innovative software developments"   |
| 1997 - MOTOROLA, INC.<br>Schaumburg, IL, USA                                     | "For leadership in research, development and deployment of high density electronic packaging and interconnections for portable communications products."   |
| 1996 - TEXAS INSTRUMENTS/Digital<br>Signal Processing Group<br>Stafford, TX, USA | "For technical excellence in the design and application of digital signal processors."   |
| 1995 - IBM CORPORATION<br>Armonk, NY, USA  | "For the development and continuing leadership in MOSFET semiconductor main memory technology for the computer industry."  |
| 1994 - BELLCORE<br>Livingston, NJ, USA   | "For worldwide leadership in broadband fiber optic telecommunications systems by initiating the concept, establishing detailed specification, and promoting the development and deployment of synchronous optical networks (SONET)." |

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| 1993 - JET PROPULSION LABORATORY<br>Pasadena, CA, USA    | "For contributions to electrical, electronic and computer engineering that have led to preeminence in the unmanned exploration of space."               |
| 1992 - PHILIPS ELECTRONICS<br>Eindhoven, The Netherlands | "For pioneering research in electronics and the development of much of the basic technology leading to the creation of the optical recording industry." |
| 1992 - ERICSSON RADIO SYSTEMS AB<br>Stockholm, Sweden    | "For significant contributions to the development and implementation of analog and digital cellular radio technology."                                  |
| 1991 - APPLE COMPUTER, INC.<br>Cupertino, CA, USA        | "For the creation and establishment of the broadly successful personal computer."   |
| 1990 - IBM CORPORATION<br>Somers, NY, USA                | "For the development of the multilayer ceramic thermal conduction module for high performance computers."   |
| 1989 - HEWLETT-PACKARD CO.<br>Palo Alto, CA, USA         | "For the creation, development, and introduction of the first full-function, shirt-pocket-sized, scientific calculator."                                |
| 1988 - AT&T BELL LABORATORIES<br>Holmdel, NJ, USA        | "For pioneering research and contributions to the basic theory, design, and fundamental development of cellular mobile telecommunications."             |
| 1987 - SONY CORPORATION<br>Tokyo, Japan                  | "For the development and effective application of high technology to consumer and industrial products."   |
| 1987 - IBM CORPORATION<br>Armonk, NY, USA                | "For the innovation development and expansion of the magnetic disk storage concept for computers."  |
| 1986 - SOUTHERN CALIFORNIA                               | "For innovation in the development of Edison Company alternate energy sources for electrical power."  |
| 1986 - INTEL CORPORATION                                 | "For innovation in the development of the microprocessor and related circuit technologies."   |