



## Asian American Engineer of the Year

### Dr. Parthasarathy Ramanujam

---

Senior Technical Fellow  
Boeing Defense, Space & Security  
The Boeing Company

#### Citation of Accomplishment:

**Dr. Parthasarathy Ramanujam has made pioneering contributions to communication satellite antenna systems by introducing, improvising and developing shaped reflector technology and authoring the original radio frequency design software, leading to worldwide application of this technology.**

Dr. Parthasarathy Ramanujam is a Senior Technical Fellow with the Antenna and Payload Products organization of Boeing Defense, Space & Security. He is an antenna system architect on many successful business proposals, a key contributor on enterprise electromagnetics projects as well as a recent Sea-based X-band radar antenna analysis, and mentors young engineers in antenna technologies and software.

Ramanujam developed the shaped reflector technology which transformed satellite antennas in the world. He has two dozen patents for his work with antenna systems. He has made significant contributions to communication satellite antenna systems by introducing and developing shaped reflector technology at Boeing and authoring much of the associated original radio frequency design software. This allowed Boeing to be the world leader in this technology in the early 1990s. The more important projects for which Ramanujam has served as key antenna architect include the DIRECTV high def satellites, the 702MP spacecraft product line, Intelsat and Inmarsat 5 satellites, and the 601HP satellites.

Ramanujam received a bachelor's degree in electronics and communication engineering from the University of Madras in India. He also earned a master's degree in microwave and radar engineering and his Ph.D. in electrical engineering from the Indian Institute of Technology. From 1983 to 1987 he was a Postdoctoral Fellow at Queen Mary College in London.

He and his wife have one son, Bharat, who was diagnosed at age 2 with the metabolic disorder HCU (homocystinuria). Bharat has a passion for endangered animals and developed a website on the topic. The family enjoys traveling to national parks, zoos and American history site, including several Civil War sites just this past summer. They have been to more than 30 zoos in the United States and all the American Presidential museums, except two. He and his family are also involved in serving the PKU and Allied Disorders community.

