

# Design Strategies for Social Change



Eswaran Subrahmanian

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## CURRENT RESEARCH

Employing novel design processes to solve pressing and urgent problems

The ability for human beings to design new tools to tackle changing environments and times has been an important key to survival and a driver of progress across time. In the digital age especially, technology has propelled the global community towards new design strategies for some of society's greatest challenges. Dr. Eswaran Subrahmanian, Research Professor at Carnegie Mellon University, hopes to bring awareness to the act of designing, which he refers to as the "uncelebrated evolutionary cornerstone of all activity in each human being." He and his interdisciplinary, international, and diverse team are working to solve pressing and urgent problems in countries such as India that have underdeveloped infrastructure and high rates of poverty. Furthermore, technologies created for developing countries often leads to the ability to expand that technology to developed countries at lower cost, energy consumption, and materials use than the technologies they are currently using. Therefore, Dr. Subrahmanian achieves both scientific and educational goals as he addresses urban problems and public issues while teaching the next generation of scientists in the US and India to do the same.

With the firm belief that "design education must integrate theory, research, and practice to be relevant and practical to human development in society," Dr. Subrahmanian has spent over 25 years advancing the design of technologies for the future. His passion for the synthesis of different disciplines to solve problems combined with his deep concern for the global community has manifested in a socio-technical design solutions through simulation, gaming, and visualization for improved social participation and communication. Specifically...

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## AFFILIATION

 Carnegie Mellon University

## EDUCATION

- B.E. (Honors), with Practice, 1976 , Birla Institute of Technology and Science
- M.S., in Computer Science, 1979 . University of South Carolina
- Ph.D., in Information Systems and Public Policy or Urban and Public Affairs, 1987 , Carnegie Mellon University

## AWARDS

- Steven Fennes Award for Systems Engineering, Carnegie Mellon University, Pittsburgh
- Fellow of the American Association of Advancement of Science
- Distinguished Scientist Association of Computing Machinery
- Summer Fellowship for the Institute

## RESEARCH AREAS

Technology, Informational Sciences / Internet, IOT, Devices, Data, Poverty & Equality

## FUNDING REQUEST

Your contributions will support the continued research of Dr. Eswaran Subrahmanian, as he addresses socio-technical design problems through novel methods of simulation, gaming, and visualization for better social participation and communication. Donations will fund the necessary \$900K-\$1M/year required for personnel, research costs in India, travel, technical supplies, computers, and software. Join in fueling new innovation and scientific concepts within technology!