BIOGRAPHICAL SKETCH

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NAME: Nitish V. Thakor

POSITION TITLE: Professor, Biomedical Engineering

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	Completion Date MM/YYYY	FIELD OF STUDY
Indian Institute of Technology, Bombay, India	B. Tech.	08/1974	Electrical Engineering
University of Wisconsin, Madison, USA	M.S.	12/1978	Biomedical Engineering
University of Wisconsin, Madison, USA	Ph.D.	08/1981	Electrical and Computer Engineering

EXPERIENCE

1974-1976	Electronics Engineer	Philips Company (India)
1977-1981	Teaching & Research Asst.	University of Wisconsin, Madison
1981-1983	Assistant Professor	Northwestern University, Evanston Electrical Eng. & Computer Science
1984-1986	Assistant Professor	The Johns Hopkins University Biomedical Engineering School of Medicine
1987-1994	Associate Professor	The Johns Hopkins University Biomedical Engineering School of Medicine
1994- present	Professor	The Johns Hopkins University Biomedical Engineering School of Medicine Joint appointments in Electrical and Computer Eng., Neurology
2012-present	Professor	National University of Singapore Professor, Biomedical Engineering,

Positions and Employment

1974-1976	Electronics Engineer, Philips Company (India)
1977-1981	Teaching & Research Asst., University of Wisconsin, Madison, WI
1981-1983	Assistant Professor, Electrical Eng & Computer Science, Northwestern University, Evanston, IL
1984-1986	Assistant Professor, Biomedical Engineering, The Johns Hopkins University School of Medicine
1987-1994	Associate Professor, Biomedical Engineering, The Johns Hopkins University School of Medicine
1994-	Professor, Biomedical Engineering, The Johns Hopkins University School of Medicine
2012-	Director, Singapore Institute of Neurotechnology, the National University of Singapore

Other Experience and Professional

1996	Fellow, AIMBE
1997	Fellow, IEEE; Now Lifetime Fellow
2005	Founding Fellow Biomedical Engineering Society
1995-1999	Permanent Member, Surgery & Bioengineering Study Section
2000-2010	Member, several NIH and NSF study sections and review panels
2007	Chair, NIBIB Quantum Panel (2007)
2004-present	Co-Director, Training Program in Neuroengineering, NIBIB

AWARDS

- National Scholarship, India; Graduate Fellowships, University of Wisconsin, Madison
- 2nd Prize, Student Paper Competition, Annu. Conf. Eng. Med. Biol. (1981)
- 1st Prize, Paper Competition, Symp. Computer Appl. Med. Care (1982)
- Research Career Development Award, The National Institutes of Health (1985-1990)
- The Presidential Young Investigator Award, The National Science Foundation (1985-1991)
- The Fulbright Fellowship, Cybernetics Institute, Barcelona, Spain, 1987.
- Centennial Achievement Medal - University of Wisconsin, School of Engineering, 1993.
- Fellow, American Institute of Medical and Biological Engineering, 1996; Fellow, Institute of Electrical and Electronics Engineers (IEEE) 1997, Founding Fellow, Biomedical Engineering Society, 2005.
- Distinguished Service Award, Indian Institute of Technology, Bombay, India, 2008 and Distinguished Alumnus Award, Indian Institute of Technology, Bombay, India, 2010.
- Technical Achievement Award from IEEE Engineering in Medicine and Biology Society, 2010.
- Distinguished Achievement Award, University of Wisconsin, School of Engineering, Madison, WI, 2010.
- Fellow, International Federation of Medical and Biological Engineering, 2012.
- Editor in Chief, IEEE Transactions on Neural Systems and Rehabilitation Engineering (2005-2011) and Medical and Biological Engineering and Computing (2013-present).
- Engineering Leadership Award, National University of Singapore, 2016.
- IEEE Engineering in Medicine and Biology Society, Academic Career Leadership Award, 2017

A. Biographical Sketch

Nitish V. Thakor is a Professor of Electrical and Computer Engineering and Biomedical Engineering at Johns Hopkins University since 1983. He has also been the Professor of Biomedical Engineering and served as the Director of Singapore Institute for Neurotechnology at the National University of Singapore since 2012. Prof. Thakor's technical expertise is in the field of Neuroengineering, where he has pioneered many technologies for brain monitoring to prosthetic arms and neuroprosthesis. He has published over 380 refereed journal papers (Google H-Index 73, >24,000 citations). He has also more than 20 patents issued or pending and co-founded 3 active companies. He is currently the Editor in Chief of Medical and Biological Engineering and Computing, and was the Editor in Chief of IEEE TNSRE from 2005-2011. Prof. Thakor is a recipient of a Research Career Development Award from the National Institutes of Health and a Presidential Young Investigator Award from the National Science Foundation, and is a Fellow of the American Institute of Medical and Biological Engineering, Life Fellow of IEEE, Founding Fellow of the Biomedical Engineering Society, and Fellow of International Federation of Medical and Biological Engineering. He is a recipient of the award of the Academic Career Award and Technical Excellence in Neuroengineering from IEEE Engineering in Medicine and Biology Society, Distinguished Alumnus Award from Indian Institute of Technology, Bombay, India, and a Centennial Medal from the University of Wisconsin School of Engineering.

B. Personal Statement

I direct the laboratory for Neuroengineering and Medical Instrumentation at Johns Hopkins University. I currently supervise three post doctoral fellows and research associates, one visiting professor, 4 Ph.D. students and two Masters degree candidates. In the past I have mentored more than 100 Masters and PhD students and more than 45 post doctoral fellows. I am the Director of the Neuroengineering training grant and also serve as the Editor in Chief of the journal Medical and Biological Engineering and Computing. My research in the past has been funded by the NIH, NSF, and Department of Defense as well as a Small Business Innovations Research Grant. Primary focus of my lab is in the field of medical instrumentation, neuroengineering, and prosthesis: The specific current themes are two fold: 1) Clnical and Translational Biomedical Engineering – where have for 15 years focused on the cardiac arrest related brain injury, mechanism, therapies, and outcomes. We also study develop technologies for electrophysiological monitoring, and imaging in this model. 2) Prosthesis/Neuroprosthesis – Over the past 15 years, we are involved in the development of prosthetic limbs, sensors and control systems, as well as both muscle and brain based control. We also study develop technologies for electrophysiological monitoring, myoelectric signal processing and control of prosthesis, electrocorticography for neuroprosthesis, and most recently, sensory feedback.

C. Publications

Complete List of Published Work: (374 refereed journal papers)
https://scholar.google.com/citations?user=SB_7Bi0AAAAJ&hl=en