

**Prof. Dr. Rao Tatavarti** M.S. (IIT Madras), PhD (Dalhousie University, Canada)  
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**2015 – To date**

Visiting Professor

University of Georgia, Athens, Georgia, USA

**2014 – To date**

Founder and Managing Partner  
Adviser to Board of Directors

CATS – CASTLE Advanced Technologies and Systems, India – A Technology Start-up Firm.  
Mech Well Industries, Nasik, India

**2013 – 2015**

Regional Director

National Maritime Foundation, New Delhi, India

NMF, Vizag Chapter – A Think Tank for Advancing India's Maritime Interests.

**2010 – To date**

Director, Dean and Senior Professor  
Executive Director  
Visiting Professor  
Director  
Technical Adviser  
Technical Adviser  
Technical Adviser  
Editorial Board

GVP-SIRC and GVP College of Engineering, Visakhapatnam, India  
CASTLE, Visakhapatnam – A Non Profit Scientific Society and Think Tank  
U of H – Central University of Hyderabad, Hyderabad, India  
Srujana Dukeship Consulting – An Innovation Incubation Company  
Mrs. AVN College, Visakhapatnam, India  
Hindustan University, Chennai, India  
The Sun School, Vizianagaram, India  
ICTACT Journal on Image and Video Processing, India

Involved in the Design & Development of Cutting-Edge Systems/Technologies with Aerospace / Oceanic Applications in Defence/Civilian Sectors.

**2008 – 2010**

Member, Board of Management  
Director (R&D)  
Dean, Academic Research

VIT University, Vellore, India

Steered R&D activities and was responsible for increasing the R&D productivity at VIT University. Instrumental in streamlining the research policies and practices of VIT University. Facilitated award of 54 PhDs and 25 M.S. by Research degrees.

**1989 - 2008**

Senior Scientist and Additional Director  
Head, Centre for Oceanics and Optronics  
Programs Director - Non-Acoustic Technologies

Naval Physical & Oceanographic Laboratory (NPOL), DRDO, Kochi, India

Significant contributions to the fields of ocean science, engineering and technology through development of new algorithms, novel monitoring techniques and innovative design and development of highly sensitive optoelectronic systems for studying the dynamics of stratified fluids as well as for use in naval surveillance activities. Design and Development of novel techniques and technologies to monitor ocean dynamics and was responsible for utilization of the state-of-art satellite technology for surveillance activities - by developing satellite image processing algorithms which can comprehensively extract spatial feature information from any of the available satellite sensors covering regions of interest.

**1984 - 1989**

Researcher and Teaching Assistant

Dalhousie University, Halifax, Canada

Involved in R&D and Teaching Activities pertaining to Coastal and Ocean Processes at Dalhousie.

**1981 - 1984**

Researcher and Senior Project Officer

Indian Institute of Technology, Madras, Chennai, India

Involved in R & D and Consultancy Activities in Ocean / Coastal / Port and Harbor Engineering

**Professional Experience**

30 + years R&D experience at various institutes in India, Asia, North America, Europe and Russia.

**Research Projects and Technical Consultancy**

Headed and completed research and consultancy projects with a total financial outlay of more than Rs.500 million in India and North America related to Engineering Industry, Ocean Industry, Power, Oil and Natural Gas, Ports and Harbors, Defence and Telecom.

**Research Interests**

Aerospace and Ocean Engineering and Technology, Signal Processing, Fluid Dynamics, Photonics, Image Processing, Satellite Image Processing, Biomedical Engineering and Bio-Technology

**Research Supervision**

78 Theses / Dissertations (32 Bachelors, 42 Masters and 4 PhDs in Engineering, Technology and Science); Many Private and Public Funded Projects

**Teaching Experience**

22+ years of teaching experience at Dalhousie University, Canada; Cochin University of Science and Technology, Kochi; VIT University, Vellore, GVP College of Engineering, Visakhapatnam; Central University of Hyderabad, Hyderabad.

**Publications / Patents / Systems**

175 - 157 Peer Reviewed Research and Classified Publications      2 Monographs      7 Patents      9 Systems

**Systems and Technologies Developed for Commercialization**

Systems for - Real Time Monitoring of Air Quality, Air Data Products from Fighter Aircrafts, Environment, Eaves Dropping, and Wind Profile. System for Maritime Surveillance, System for Vibration and Condition Monitoring, Fully Instrumented Wind Tunnel Facility.

**Awards**

Most Active Researcher Awards, GVPCE (2014, 2013, 2012, 2011), VIT University (2010, 2009), DRDO Laboratory Award (2007), DRDO Silicon Medal (2006), DRDO Advances in Naval Technology Award (1997).

**Fellowships**

Berkner Fellow, American Geophysical Union, USA (1990–1994); Dalhousie Senior Fellow, Canada (1988–1989); International Center for Ocean Development (ICOD) Fellow, Canada (1985–1987); Dalhousie Fellow, Canada (1984–1987); Hayes' International Scholar Canada (1984–1985); Institute Fellowship, IIT Madras (1981–1983); CSIR Fellowship (1980–1981).

**Membership of Professional Bodies**

Life Member of Scientific and Engineering Professional Bodies in India, Asia and North America; and the Founder of OSI; CASTLE and CATS.