

RESUME OF Dr. P.R. SASEENDRAN PILLAI

1. **Name** **Dr. P.R. SASEENDRAN PILLAI**
- Designation** Professor & Head, Department of Electronics,
Cochin University of Science & Technology,
Cochin - 682 022.
2. **Academic Qualifications** M.Sc.(spln: Electronics), Kerala University
(1977)
Ph.D. (Underwater Communication), Cochin
University (1982)
3. **Title of Ph.D. Thesis** *Studies on Underwater Propagation:
Development of Programmable Arrays*
4. **Areas of Research** *Sonar Signal Processing, Embedded Systems,
Spread Spectrum Communications / CDMA,
Digital Communications and ATM Networks*
5. **Professional Experience :**

Sl. No.	Positions held	Period	Employer	Nature of work
1.	Scientific Officer, ECE Department, IISc, Bangalore	Jan 1982 to Mar 1983	ECE Dept, IISc, Bangalore -12	Research in sound Transmission In Coastal seas (STIC)
2.	Lecturer, Dept. of Electronics, CUSAT, Cochin-22	Mar 1983 to Feb 1989	Registrar, CUSAT, Cochin – 22	Teaching and carrying out research projects
3.	Reader, Dept. of Electronics, CUSAT, Cochin – 22.	Feb. 1989 to June 1994	Registrar, CUSAT Cochin – 22	Teaching and carrying out research projects
4.	Professor, Dept. of Electronics, CUSAT, Cochin – 22.	June 1994 to April 1998	Registrar, CUSAT Cochin – 22	Teaching and carrying out research projects
5.	Professor & Head, Dept. of Electronics CUSAT, Cochin-22	May 1998 to April 2001	Registrar CUSAT Cochin- 22	Teaching, Administration and carrying out research projects
6.	Professor, Dept. of Electronics CUSAT, Cochin-22	May 2001 to May 2010	Registrar CUSAT Cochin- 22	Teaching, Administration and Research
7.	Professor & Head, Dept. of Electronics CUSAT, Cochin-22	May 2010 to date	Registrar CUSAT Cochin- 22	Teaching, Administration and Research

8. Experience as a Research Guide: (Approved Research Guide since 24-03-1985)

Number of Ph. Ds Produced : 6
Number of Candidates registered for Ph. D. : 7

9. Membership in Scientific and Professional bodies

- Life member Acoustical Society of India
- Member, Acoustical Society of America
- Member, IEEE (OES)

10. Awards/ Recognitions Conferred:

- ❖ Received the Sir C.V. Raman Award for the Best Paper Published in the Journal of Acoustical Society of India in the year 2002.
- ❖ Technical Committee Co-Chair in the area of *Oceanographic Instrumentation, Communication, Navigation and Positioning*.
- ❖ Recognised as Who is Who in OES in the IEEE Oceanic Engineering Society Newsletter (XLIV(4), October 2009, 10 -11.

11. Competencies

The following research projects have been / are being executed under the investigatorship of the Principal Investigator.

- ❖ Successfully implemented the project entitled *Development of an Array Gain Control System* sponsored by STEC, Government of Kerala (Outlay – 0.5 lakhs)
- ❖ Successfully implemented the project entitled *Investigations on Low Frequency Piezopolymer Sensor elements and Arrays for underwater Applications* sponsored by Department of Electronics, Government of India (Outlay – 8.90 lakhs)
- ❖ Successfully implemented the project entitled *Computer Aided Design of Transducers* sponsored by (Outlay – 7.35 lakhs)
- ❖ Successfully implemented the project entitled *Development of Acoustic Techniques for Fish and DSL Biomass Estimations* sponsored by DoD, Government of India (Outlay – 69.11 lakhs)
- ❖ Successfully implemented the project entitled *Development of Algorithms for Spread Spectrum Underwater Communication Systems* sponsored by NPOL/ DRDO (Outlay – 4.9 lakhs)
- ❖ Successfully implemented the project entitled *Implementation of Multiple CDMA Communication System* sponsored by NPOL/ DRDO (Outlay – 5 lakhs)
- ❖ Successfully implemented the project entitled *Center for studies in Transducer systems for Ocean Engg. Applications (Phase I)* sponsored by MHRD, Government of India (Outlay – 22 lakhs)
- ❖ Successfully implemented the project entitled *Center for students in Transducer systems for Ocean Engg. Applications (Phase II)* sponsored by MHRD, Government of India (Outlay – 10 lakhs)
- ❖ Successfully implemented the project entitled *DRS on Ocean Electronics under the Special Assistance Programme of UGC* sponsored by UGC (Outlay – 70.77 lakhs)
- ❖ Successfully implemented the project entitled *DSA Programme under the Special Assistance Programme of UGC* sponsored by UGC (Outlay – 70.00 lakhs)

- ❖ Successfully implemented project entitled *Implementation of Intelligent Identifier for Ambient Noise Sources* sponsored by Naval Research Board, New Delhi (Outlay – 12.995 lakhs)
- ❖ Successfully implemented entitled *Tuna Resources of the Indian EEZ-An Assessment of Growth and Migratory Patterns* sponsored by DoD, Government of India (Outlay – 24.25 lakhs)
- ❖ Successfully implemented project entitled *Development of Autonomous Buoy Systems for Radio Acoustic Positioning and Tracks* sponsored by Department of Information Technology, Govt. of India (Outlay – 228.89 lakhs)
- ❖ Implementation of a mission mode project entitled, “***Development of Miniaturised Archival Tags***”, sponsored by the Ministry of Earth Sciences, Government of India, is in progress (Total outlay 99.56 lakhs)

12.

(a) Total Number of Papers published	:	118
(b) Number of Technical Reports brought out	:	52
(c) Total Number of Proceedings Edited	:	11
(d) Number of Symposia organized (SYMPOL)	:	11