



Biodata - Dr. Satheesh Babu PK

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SNAPSHOT

A professional Engineer with over 29 years of experience in Maritime Sector especially in Education, Ship Design, Production and Research fields with comprehensive experience in the following areas:

- ✓ Active Naval Service as officer for 22 Years (Retired as Commander) with wide range of experience in the industry at different levels of management.
 - ✓ Part of Cochin University Faculty (Dept. of Ship Technology) for 5.5 years (2018-2014), while in the Naval service.
 - ✓ Well accustomed with education in maritime sector as Professor and Head of the Department at SNGCE.
 - ✓ Outstanding Educational qualification - B.Tech from CUSAT), M.Tech (IIT Bombay), DIIT (IIT Delhi), PGDIM (IGNOU) and PhD (CUSAT, Ship Technology).
 - ✓ Resource Person for Kerala Technological, Cochin University, Indian Maritime University and Basaveshwar Engineering College, Bagalkot (Autonomous, Karnataka).
 - ✓ Well versed with NAAC accreditation process, Development of new Curriculum as per AICTE norms, Conduct of International Conference, Workshops etc.
 - ✓ Performed training administration at senior management level and Navy's premier training institute and has around three years sailing experience in warships.
 - ✓ Well versed ship construction, maintenance, quality control and project management and led highly skilled workforce Naval Dockyards.
 - ✓ Expertise in managing a wide spectrum of human resources management functions entailing training and development, performance appraisals and employee relations.
 - ✓ Member of several international organisations such as RINA, London.
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Qualifications

- ✓ **Ph.D** (Ship Technology) - Cochin University of Science & Technology (2018)
 - ✓ **B Tech** (Naval Architecture and Shipbuilding) - Cochin University (CUSAT) (1992)
 - ✓ **Post Graduate Diploma** - Indian Institute of Technology, Delhi (Four Semester course) (First Rank with a CGPA of 9.75/10) (1996)
 - ✓ **M Tech** (Corrosion Science and Engineering) – IIT Bombay (First Rank with a CGPA of 9.75 /10) (2000)
 - ✓ **PG Diploma** (Management) - IGNOU (First Class)
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Personal Qualities

- ✓ Ability for learning the latest development in the related field of engineering and apply for professional enhancement.
 - ✓ Excellent communicational skills and good command over English language.
 - ✓ Excellent academic background and possess a passion for teaching/ research activities.
 - ✓ Proven professional leadership skills in multi-cultural and multidisciplinary environment at various places in India.
 - ✓ Quick learner, adaptable to change without losing focus.
 - ✓ Ability to interact and build relationship at all hierarchical levels.
 - ✓ Ability to take decisions during crisis management with human and logistic constraints at short notice.
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Work Experience & Career Highlights

Academic/ Research

- ✓ **Head of the Department** at Dept of Ship Technology, CUSAT since 17 Jan 2022.
- ✓ **Prof and HoD at SNGCE.** Headed Naval Architecture and Shipbuilding (Administration, Teaching, Research as well as Placement activities) during Jun 2014 – Jun 2021.
- ✓ **Faculty of Naval Architecture at the Dept of Ship Technology, CUSAT.** Widespread experience in teaching varied subjects, guiding more than 30 ship design projects, conduct of external viva voce etc.
- ✓ In addition to teaching, **headed the Naval Construction Wing at CUSAT** ensuring academic administration of Naval officers undergoing B Tech. I Was directly responsible for all coordination activities between Indian Navy, Southern Naval Command and Cochin University. Responsible for funding of programmes of Cochin University with close liaison with Ministry of Defence (Navy).
- ✓ Empanelled as **external examiner in Naval Architecture by Cochin University** for setting up question papers, valuation of answer sheets, academic audit and conduct of viva voce examination (2006, 2018 and 2019) for final year B Tech students.
- ✓ Part of committee for NAAC accreditation process of SNGCE.

- ✓ **Convener for international conference** “ICTEM – 2016’ and one day workshop “Flotilla” on boat design, construction and operation conducted at SNGCE.
- ✓ Chairman of **KTU Curriculum Committee** for Naval Architecture branch in 2015 and member of curriculum committee in 2019.
- ✓ Undergone several short courses conducted by Indian Register of Ships, Tribon, Naval EMI/EMC Centre, etc. and attended workshops conducted by IIT Chennai (Marine Hydrodynamics), NMRL (Corrosion Engineering), CUSAT (Marine Corrosion), AICTE (outcome based education) etc. for professional advancement.
- ✓ **Published following technical papers international journals/ workshops:-**

(i) Standard referred journal (Peer reviewed journals)

1. PK Satheesh Babu, A Mathiazhagan, C.G. Nandakumar, “Corrosion Health Monitoring System for Steel Ship Structures”, International Journal of Environmental Science and Development, Vol. 5, No. 5, October 2014.
2. Satheesh Babu P.K, Mathiazhagan A, “Integrated Corrosion Protection System for Ship Structures”, International Journal of Design and Manufacturing Technology (IJDMT), pp 29-34, Dec 2014.
3. Jishnu Saji, Jose Prasobh, Satheesh Babu, P.K, “Requirement of Volume Dredging and Capacity Enhancement of Dredgers in India”, International Journal of Design and Manufacturing Technology (IJDMT), pp 60-67, Dec 2014.
4. Satheesh Babu P.K and Geena J Perumal, “The Development of Expert-System for Corrosion Protection of Ship Structures”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), pp 56-63, Jan 2016.
5. Gautham Rajagopal, Rahul Nath R, Savin V and Satheesh Babu P.K “Determination of Efficient Recovery Methods Based on Nature of Spilled Oil”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), pp 32-41, Jan 2016.
6. Mathesh B, Satheesh Babu P.K “Energy Consumption for Ship Dismantling through Beaching Method”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), pp 64-67, Jan 2016.
7. Anant Ajithkumar and Satheesh Babu, P. K. (2022). A review on applicability of hydrogen fuel cells in shipping for a sustainable future, Sustainability, Agri, Food and Environmental Research, (ISSN: 0719-3726), 10(X), 2022: <http://dx.doi.org/10.7770/safer-V10N1-art2835>.
8. Arya, V. P., Akshara Priya Vinod and Satheesh Babu, P. K.. (2022). Carbon footprint levels and recommendations for sustainable shipping industry, Sustainability, Agri, Food and Environmental Research, (ISSN: 0719-3726), 11(X).

(ii) Papers Published in Seminars/ Symposia Proceedings

a. International

1. ISBN: 02435 2002 CP: PK Satheesh Babu, M Bobby Kannan, VS Raja: Effect of Temper on Environmental Assisted Failure in 7010 Aluminum Alloy” paper No 02435, Corrosion, 2002.
2. PK Satheesh Babu, A Mathiazhagan, “New horizon in Ship safety and reliability – Corrosion Management Approach”, 3rd Asian Symposium of Materials and Processing, IIT Madras, 2012.
3. ISBN: 978-93-85434-72-3: Abhijith. K. Sujith, Aadith Mathew, Adarsh K.S, Josna John, Sane Shajan, Sreekumar Pai G, Satheesh Babu P.K, P.G Sunil Kumar, “Development of

Underwater Drone, ROV Varuna”, Proceedings of the International Conference on Shipbuilding & Offshore Engineering 2018, (ICSOE 2018), October 25-26, 2018, pp 125-137.

4. Arunprasath, Satheesh Babu, P. K., Sunil Kumar and Mangesh (2021). Methodologies to be followed to minimize the loss of containers at sea, In Proceedings of the Third International Conference on Shipbuilding and Offshore Engineering (ICSOE2021), ISBN: 978-93-85434-91-4, pp 81-90.

5. Savin Viswanathan, Satheesh Babu, P. K., Christian Holden and Olav Egeland, A. (2021). Co-simulation methodology for offshore load handling, In: B. M. John, T. K. Favas and P. K. Satheesh Babu (Eds.), Proceedings of the International Conference on Advances in Naval and Ocean Engineering (pp. 8-14). Chess Educational Publishers.

6. Gaurav Tehlan, and Satheesh Babu P. K, (2022). The concept design of hybrid wind-solar ferry for inland waters of Kerala, International Conference on Sustainable Technology and Innovation for Industry 4.0 (icstii 2022), April 21-22, 2022, CUSAT, Kochi, Kerala, India.

b. National

PK Satheesh Babu, “Influence of form parameters on performance of ships”, Conference on Marine Hydrodynamics, NSTL Visakhapatnam, 2002.

c. Regional

PK Satheesh Babu, A Mathiazhagan, Surface preparation for Coatings, Proceedings of the one day workshop on Marine Corrosion and its Prevention, CUSAT, 24th Mar 12.

Anant Ajitkumar, Satheesh Babu PK, LNG As Marine Fuel, A Solution for Suphur Cap, Ships Technic, Published by SNAS, Department of Ship Technology, Vol XXXI, pp 49-54, 2020

✓ **Industrial**

- ✓ Headed the Hull Quality Control Department at Naval Dockyard Visakhapatnam. Personally inspected the construction of several ships/ submarines.
- ✓ Experience of visiting CSL, MDL, GSL, Naval Dockyards, Port Trusts, and several small shipyards.
- ✓ Firsthand experience of onboard hull and systems maintenance while posted onboard warships.
- ✓ Vast experience in **design of ships** for the Indian Navy. Was part of teams involved in design of hull form, appendages, model tests, general arrangement, stability, aviation facilities for the latest Aircraft Carrier being built at Cochin Shipyard.
- ✓ Proficient in modern ship design and construction software.

Personal Details

- Date of Birth : 11 Jan 1971, Age 50 Years
- Marital Status – Married (Wife Savitha Satheesh [Home maker], Daughters Shreya Satheesh [Architect] and Shweta Satheesh [College])

Details of Appointments:

Organisation/ Unit	From	To
Naval Orientation Training and attachment to warships	Feb 93	Sep 96
Naval Architect Officer at Naval ships INS Magar And INS Vindhyagiri	Oct 96	Jul 98

Asst Manager Quality Control at Naval Dockyard, Visakhapatnam	Aug 98	Aug 99
M.Tech at IIT Bombay	Aug 99	Jan 11
Dy Director Naval Design, Directorate of Naval Design, New Delhi	Jan 11	Jun 05
Training Commander at Shipwright School, Visakhapatnam	Jul 05	May 08
Cochin University of Science and Technology	Jun 08	Jun 14
Sree Narayana Gurukulam College of Engineering	Jun 14	Jun 21
Cochin University of Science and Technology	Jun 21	Till date
