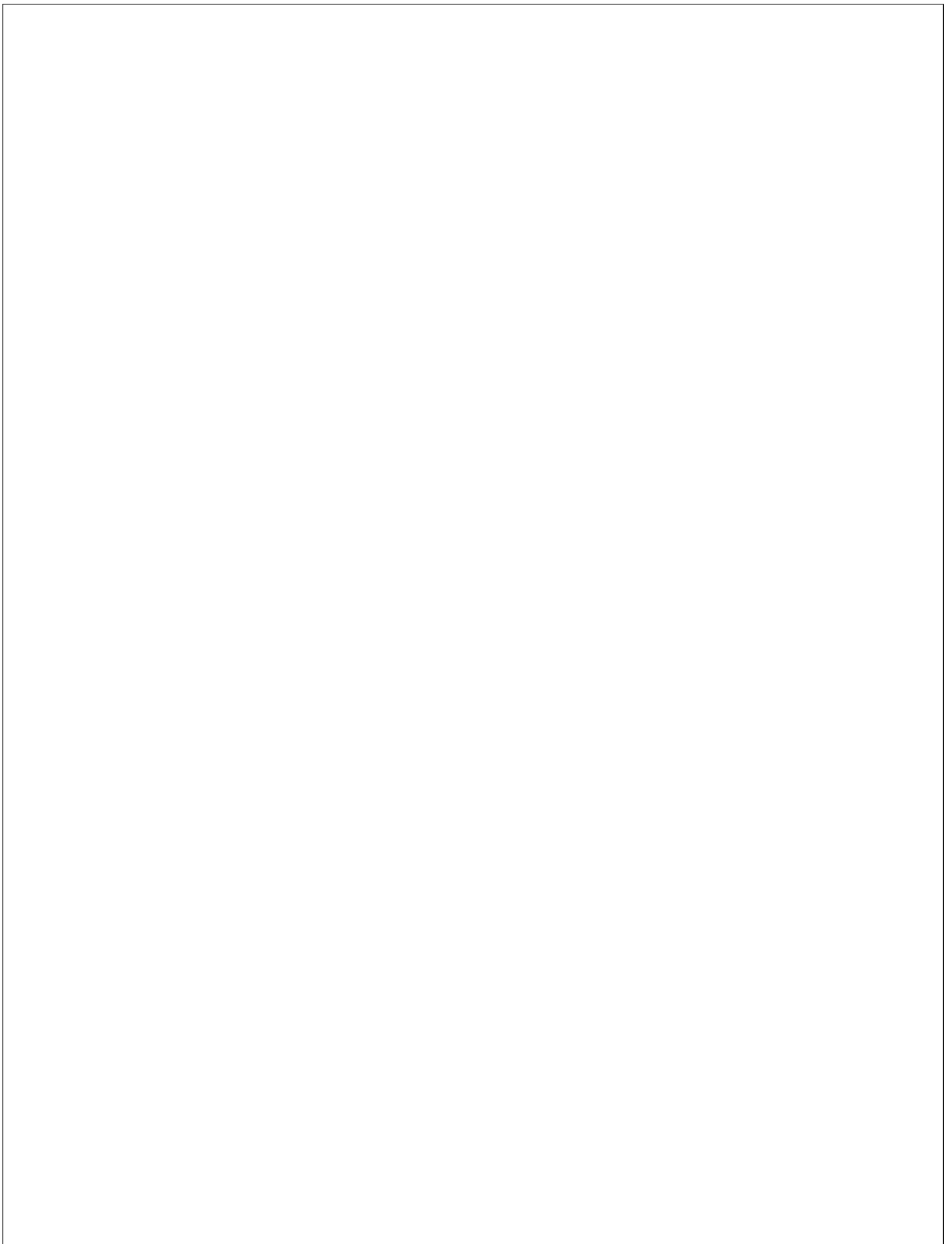


Name: Mr. A. Muthuvel	Photo 			
Designation:				
Qualification:	MS (By Research)			
Area of specialization:	Mechanical Engineering			
Experience:	Industrial Experience		Teaching Experience	
	4		13	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	20		10	
Publications:	Conference		Journal	
	National	International	National	International
	3	15		17
Books / Book Chapters	nil			
Patents:	National		International	
	5			
Professional Body Membership	• The Institutions of Engineers (IEI) - M-1583969 • Indian society for Technical Education (ISTE) - LM116790 • Society of Automotive Engineers (SAE) - 7150110321 • Association of Scientists, Developers and Faculties (ASDF) -1356783485623507 • Maritime Technology Society (MTS) IEEE			
Staff Achievements	SIAA Best Young Researcher Award, Borewell Rescue robot project selected for ISTE best project award. Borewell Rescue robot project selected for 100 record holders by the Chief Editors of Record Books of 6 different countries in Indian Book of Records. Baba Banda Singh Bahdur Engineering College Fatehgarh Sahib, Punjab National Award for My Borewell Project.			



Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
	M.S (BY RESEARCH)	MECHANICAL ENGINEERING	2012	Hindustan Institute of Technology and Science	Hindustan University	7.5	FIRST
	B.TECH	MECHANICAL ENGINEERING	2008	Bharathiyar College of Engineering & Technology	Pondicherry University	7.91	FIRST

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering college		07.07.2022 2	-	2	10	0
Sri Sairam College of Engineering	Assistant Professor	21.07.2015	06.07.2022	7	0	15
Hindustan University	Assistant professor	18.06.2013	30.04.2015	2	10	12
	Lecturer	18.06.2012	17.06.2013	1	0	1
	Research Associate	24.11.2008	17.06.2012	3	6	7

Workshops/Seminars attended:

Conducted CFD workshops thrice in Hindustan University. • Organized VTU TEQIP1.3 sponsored six days workshop on “design & fabrication of go-kart vehicle for women” in July 2019 More than 75 students were registered for the event. Finally, 45 students from 12 different colleges attended the workshop. • Organized DRONE TECHNOLOGY workshop from 14th March 2019 – 18th October 2019 41 inter-disciplinary students participated in the drone technology event. • Organized the Advanced Robotics Workshop 2018 by ROVE Labs in Sri Sairam college of Engineering Anekal, Bangalore 2017. Around 60 students participated. • Organized the Miltech CNC Workshop 2018 by ROVE Labs in Sri Sairam college of Engineering Anekal, Bangalore. Around 60 students participated. • Organized the IKR 2017 pre virtual round in Sri Sairam college of Engineering Anekal, Bangalore. Around 200 students from various parts of the country participated. • Organized the Advanced Robotics Workshop 2018 by ROVE Labs in Sri

Sairam college of Engineering Anekal, Bangalore 2016. Around 60 students participated.

FDP/STTP Attended: moe iic

Symposium Attended:

Conference Attended:

Completed / Ongoing Projects:

Worked as Research Associate in Hindustan University, Chennai for the Naval Research Board Project titled “Numerical Simulation of Hull – Propeller interaction for Underwater Vehicle with mounted propellers” from 24.11.2008 to 17.06. 2012. Project cost is Rs. 17,73,000.

- Worked as a Faculty advisor for the Innovation and Entrepreneurship Development Centre IEDC funded Project titled “Bore well child rescue robot”. Project cost is Rs. 1, 00,000.
- Worked as a Faculty advisor for the Innovation and Entrepreneurship Development Centre IEDC funded Project titled “Robotic arm for physically challenged peoples”. Project cost is Rs. 1, 00,000.
- Worked as a Faculty Advisor for the “Multi Seater Solar Vehicle” sponsored by Sieger Innovation. Project cost I Rs. 6, 00,000.

University Challenge winners of the DST – Lockheed Martin – Tata Trusts India Innovation Growth Programme (IIGP) 2.0 for 2018 and got Rs.10,000,00 seed fund for Autonomous Underwater vehicle project startup.

- IICDC finalist and received Rs. 5,00,000 grants from Texas instruments and IIM Bangalore for Borewell child rescue robot and pipe inspection machine.

Patent:

Patent applied for “DRAG REDUCTIONS IN COMMERCIAL BUSES FOR FUEL CONSUMPTION USING RANS EQUATION” application number 5740/CHE/2014.

- Patent applied for “SNGE-SMART NEW GEN ELECTRICITY FOR SMART CITY” application number 201741023902.
- A Patent on “Customized Arm Design for The Bore Well Child Rescue Robot” By Harish Babu L Reference Number E-101/18000/2019-CHE and Application Number 201941026212.
- A Patent on “Borewell Child Rescue Robot” By Harish Babu L Reference Number E-101/18003/2019-CHE and Application Number 201941026215.
- A Patent on “Method and apparatus for rescuing a child trapped in a borewell” By Harish Babu L Reference Number E-101/18002/2019-CHE and Application Number 201941026214.

PUBLICATIONS

PUBLICATIONS 1. INTERNATIONAL JOURNAL

1. Aerodynamic Exterior Body Design of Bus , A.Muthuvel, M.K.Murthi, Sachin.N.P,Vinay.M.Koshy, S.Sakthi, E.Selvakumar
International Journal of Scientific & Engineering Research, Volume 4, Issue 7, June 2013 ISSN 2229-5518

2. Numerical Simulation of Drag Reduction in Formula 1 Cars A.Muthuvel *, N. Prakash **, J. Godwin John*** in AET14 conference on 29.03.2014 in Maharishi Markandeshwar University. International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622
3. Numerical simulation of combustion chamber geometry on a H.S.D.I. diesel engine – a CFD approach P. Vijayakumaran, R.Elayaraja, .A. Muthuvel, Dr. M.Subramanian PRAKASH in NCCAMAB'14 on 28th March 2014 Karpagam Vinayagar Engineering College and Technology Chennai. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e- ISSN: 2278-1684, p-ISSN: 2320–334X PP 66-73.
4. Numerical Analysis For Drag Reduction In Commercial Buses J. Godwin John¹, A.Muthuvel², N. Prakash³ in NCCAMAB'14 on 28th March 2014 Karpagam Vinayagar Engineering College and Technology Chennai. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e- ISSN: 2278-1684, p-ISSN: 2320–334X PP 01-05
5. Numerical Simulation Of Flow Inside The Square Cavity A. Muthuvel , C.Manikandan, EdwardAmalRaj.W , Dineskumar.G , Manikandan.G, Muruganatham.G International Journal of Technical Research and Applications e-ISSN: 2320-8163, Volume 2, Issue 3 (May-June 2014), PP. 8794
6. Numerical Simulation of a three bladed marine propeller in Steady and Unsteady state N. Prakash, A. Muthuvel, and D. G. Roychowdhury in IMEC 2014, MIT Trichy on JUNE 13-15, 2014. ISSN: 16627482 Applied Mechanics and Material, Volume 592-594(2014), PP1136.
7. Numerical simulation of ship hull interaction by Ranjith G, Seralathan S and Muthuvel a in International Conference On Advances In Bio Technology, Civil & Mechanical Science - ICABCMS'15 from 13th -14th March 2015 organized by Department Of Biotechnology, Civil & Mechanical Engineering Selvam College of Technology, Namakkal. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015).
8. Numerical Simulation of a Cyclone Separator by Jayachandran M, Seralathan S and Muthuvel a in International Conference On Advances In Bio Technology, Civil & Mechanical Science - ICABCMS'15 from 13th -14th March 2015 organized by Department Of Biotechnology, Civil & Mechanical Engineering Selvam College of Technology, Namakkal. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015).
9. Aerodynamic Design and Analysis of a Formula Vehicle Using CFD by Ganesh Y , Prakash N, Muthuvel and P. Baskar Sethupathi a in International Conference On Advances In Bio Technology, Civil & Mechanical Science - ICABCMS'15 from 13th -14th March 2015 organized by Department Of Biotechnology, Civil & Mechanical Engineering Selvam College of Technology, Namakkal. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015).
10. CFD Analysis on Car Body Structure V.M.Krishnan and Muthuvel and a in International Conference On Advances In Bio Technology, Civil & Mechanical Science - ICABCMS'15 from 13th -14th March 2015 organized by Department Of Biotechnology, Civil & Mechanical Engineering Selvam College of Technology, Namakkal. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015).
11. Design and Analysis of Pre compressing of air in a single cylinder four stroke by T. Yaswanth kumar, N.Prakash and A. Muthuvel in International Conference On Advances In Bio Technology, Civil & Mechanical Science - ICABCMS'15 from 13th -14th March 2015 organized by Department Of Biotechnology, Civil & Mechanical Engineering Selvam College of Technology, Namakkal. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 13 (2015).

12. Numerical Analysis of a Spoiler Arrangement in Formula Car by Ganesh. Y ¹ Prakash. N ², Muthuvel.A ³, P. Baskar Sethupathi⁴ in International Journal of Modern Trends in Engineering and Research, e-ISSN No.:2349-9745, Date: 2-4 July, 2015.
13. Numerical Analysis of a Rotor Disc for Optimization of the Disc Materials by Baskara Sethupathi P.¹, Muthuvel A.², *, Prakash N.³, Stanly Wilson Louis⁴ in Journal of Mechanical Engineering and Automation 2015, 5(3B): 5-14 DOI: 10.5923/c.jmea.201502.02.
14. Computational Fluid Dynamics analysis of Flow over the Varuna Autonomous Underwater vehicle by Alok Kumar¹, H R Gagandeep², A. Muthuvel³, K. Muthukumar⁴, Vijai R⁵ in "Futuristic Trends in Integration & Computing Techniques", organized by Sri Sairam College of Engineering on 7th of November 2015.
15. Robotic arm by Tarun. N, Shekar Prasad. M, Pradeep.C, Shivakumar. S, Muthuvel. A Department Of Mechanical Engineering Sri Sai Ram College of Engineering, Anekal, Bengaluru in International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 5, May 2017 ISSN (Online) 2456-1290

INTERNATIONAL CONFERENCE

- Numerical simulation of flow over an autonomous under water vehicle by Somasree Roychowdhury, Muthuvel and D.G.Roychowdhury, Hindustan Institute of Technology & Science, Chennai, India in developments in Marine CFD India, 18 –19 Nov 2011, Chennai, India
1. Numerical simulation of flow past three bladed marine propellers by N.Prakash, D.Dipin, A. Muthuvel and D.G.Roychowdhury, Hindustan Institute of Technology & Science, Chennai, India in developments in marine CFD India, 18 –19 Nov 2011, Chennai, India.
 2. Numerical Simulation of Flow inside the Square Cavity A. Muthuvel , C.Manikandan, Edward Amal Raj.W , Dineskumar.G , Manikandan.G, Muruganatham.G, EGS Pillay Engineering College, India in ICDAMS2013 on 28th March 2013 in Savitha University.
 3. Numerical Simulation of Cold Flow of 3d Kirlosker Tv-1 Engine Cylinder Model C.Manikandan A Muthuvel, Sugash , Siva, Naresh Joseph Christy in ICRDPET 13 on 29.03.2013 in EGS Pillai Engineering College.
 4. Design and fabrication borewell rescue robot by ^[1]Harsha Krishna Raju .R, ^[2]Hari Krishna Raju. R, ^[3]K. Hariharan, ^[4]Inayathulla .A. ^[5] Asst. Prof Muthu Vel,^[6] Asst.Prof Arun kumar M.R. in “International Conference on Applied Science, Engineering and Technology (ICASET-2016)” Page No 143 at Sri Sairam College of Engineering, Bengaluru, India from 6th to 7thJune , 2016, ISBN:9788192958050.
 5. Design and fabrication of E-bike ^[1]Shastry Srinivas Venkatesh, ^[2] Anand Chatterjee, ^[3] Ravikumar C, ^[4] Rukman Durai ^[5] Asst. Prof Muthu Vel, ^[6] Asst.Prof Arun kumar M.R. in “International Conference on Applied Science, Engineering and Technology (ICASET-2016)” Page No 141 at Sri Sairam College of Engineering, Bengaluru, India from 6th to 7thJune , 2016, ISBN:9788192958050.
 6. Adsorption of CO2 using modified ZSM 5 zeolite in petrol engines by Baskara Sethupathi, Leenus Jesu Martin and Muthuvel Arumugam in ICACIE 2016 and publication in Springer proceedings of the conference.
 7. Efficiency and life improvement of cylinder & piston by thermal barrier coating using finite element methods by Baskara Sethupathi, Leenus Jesu Martin and Muthuvel Arumugam in international conference on recent innovations in engineering and technology (ICRIET-2K16).

8. Investigation of aerodynamic and thermal performance of gas turbine cascade by Arunkumar GI, P.Balachandra Shetty, Muthuvel Arumugam and K.Sivasakthi Balan in international conference on recent innovations in engineering and technology (ICRIET-2K16).
9. Design of Heat Exchanger with Effectiveness Improvement Technique by A Muthuvel, Ashish Kashyap, Arun Kumar, Akash Chobey, Alok Kumar in ICASET – 17 3rd International Conference on Applied Science Engineering and Technology 18th - 19th May '17 Bengaluru, Karnataka ISBN: 978-81-932966-0-8, Organized by Sri Sairam College of Engineering (SSCE) and Institute For Engineering Research and Publication (IFERP).
10. Firefighting Drone, by A.Muthuvel, Srya S, Rajesh C, Venkatesh R, Vishnu varman K in ICASET 18 FROM 17th to 18th May 2018 in Sri Sairam college of Engineering .
11. Numerical simulation of flow over an autonomous under water vehicle with appendages for various turbulence models by A Muthuvel^[1] Monish Babu K^[2] Purandar Raj S^[3] Darshan N K^[4] in ICONSET 2018. From April 19th to 20th april 2018 in ACS college, Bangalore.
12. My research paper “**Under heel Reference System for Autonomous Ships - Ocean Mapping**” is selected presented oral presentation in 1st International Conference on Maritime Autonomous Surface Ship (ICMASS 2018) is the first international conference which presents cutting-edge works on autonomous ships to both academic and industry researchers. ICMAS2018 held at Busan Exhibition and Convention Center (BEXCO), Busan, Republic of Korea on November 8-9, 2018.

NATIONAL CONFERENCE

1. Numerical Simulation of Flow inside the Square Cavity by using CFD by C. Manikandan and A. Muthuvel B. Yoganathan, S. Vimalraj, R. Vinothkumar and G. Vinothkumar in NCAAAE'13 1st and 2nd March 2013 Noorul Islam University, Kanyakumari.
2. Hindustan University Autonomous Underwater Vehicle: Design and Implementation of the Poseidon AUV by S.Suryakumar^{1*}, Gokulavasan², Indrajeet Ghosh³, A.Muthuvel⁴, N.Prakash⁵, K.Kamalakkannan⁶ in 4th National Conference of Ocean Society of India OSICON-15 22-24 March 2015 CSIR-National Institute of Oceanography, Goa, INDIA.
3. Structural analysis of the Varuna Autonomous Underwater vehicle by Alok Kumar¹, H R Gagandeep², A. Muthuvel³, Arun Kumar⁴, Harish Babu L⁵ in "Futuristic Trends in Integration & Computing Techniques", organised by Sri Sairam College of Engineering on 7th of November 2015.

MAGAZINE

1. Numerical Simulation of Hull-Propeller Interaction of an Autonomous Under Water Vehicle by Muthuvel A., Prakash N. and Roychowdhury D.G. Hindustan Institute of Technology & Science, in INDIA'S STRATEGIC SPECTRUM A STRATEGIC PERSPECTIVE Magazine.
2. 20 Most promising educational institute in Karnataka on March 2016 edition in Higher education review regarding Sri Sairam college of Engineering Nurturing the innovative minds.

Books / Book Chapters:

Awards:

SIAA Best Young Researcher Award • International Friendship Society Rashtriya Gaurav Award 2017. • Best Citizen of India Award by International Publishing House. • Borewell Rescue robot project selected for ISTE best project award. • Borewell Rescue robot project selected for 100 record holders by the Chief Editors of Record Books of 6 different countries in Indian Book of Records. • Baba Banda Singh Bahdur Engineering College Fatehgarh Sahib, Punjab National Award for My Borewell Project.

Startup :Kalam Innovation -MSME

Webinar:

Resource Person:

Karpagan institute of Technology
Hindustan University

Online Courses: