

SRI SAI RAM ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

Name: Dr.N.VASUDEVAN

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Associate Professor

B.E., M.E.(CIM), Ph.D.

Mechanical Engineering

Teaching-25 Years

Research: 15Years

Designation:

Qualification:

Area of Specialization:

Experience:

❖ **Educational Qualification:**

Category	Name of the Degree	Name of the University	College	Specialization
UG	B.E	Madras University	St.Peter's Engineering College ,Chennai	Mechanical Engineering
PG	M.E	Anna University	College Of Engineering , Guindy, Chennai	Computer Integrated Manufacturing
Ph.D.	Ph.D.	Anna University	Madras Institute of Technology, Chennai	Mechanical Engineering

❖ **Research Area:**

Title of Ph.D. Thesis: Effects of cryogenic treatment on mechanical and corrosion behavior of friction stir Welded AA5083 thick plates.

Faculty in which Ph.D. was awarded: Mechanical Engineering

Area of specialization in Ph.D.: Mechanical Engineering

❖ **Professional Experience:**

Sl.No	College/Organization	Designation	Period		Total period	Nature of work
			From	To		
1.	Sri SaiRam Engineering College	Associate Professor	01.08.2012-	Till Date	13Years– Till	Teaching
2.	Sri SaiRam Engineering College	Assistant professor	03.08.2012–	31.07.12	2Yr11 M28D	Teaching
3.	Sri Muthukumaran Institute of Technology	Assistant professor	15.07.2008-	31.07.09	1Yr0 M 16 D	Teaching
4.	Sri Muthukumaran Institute of Technology	Senior Lecturer	11.11.2005-	14.07.08	2Yr8M 02D	Teaching
5.	Sri Muthukumaran Institute of Technology	Lecturer	10.10.2000-	10.11.05	5Yr 01M	Teaching

❖ **Teaching & Research Experience:**

- Teaching:|UnderGraduate:24years|PostGraduate:15years|
- Research:|15+years|Ph.D.Supervisor,AnnaUniversity|
- FormerVisitingFaculty|Dept.ofProductionTechnolgy,MIT|AnnaUniversity(2012–15)|

❖ **Technical & Research Specializations:**

- Cryogenics-assisted Materials Processing
- Composites Fabrication.
- Friction Stir Welding.

❖ **Entrepreneurial Specializations:**

- Entrepreneurship Mentoring
- Counseling Psychology.
- PostGraduated M.Sc.(Psychology)from MadrasUniversity.

❖ **Institutional Leadership & Innovation Roles:**

- AssociateProfessor|SriSairamEngineeringCollege|Since2009-**Present** |
- Coordinator,|DSTfunded-IEDC|StartupActivityCoordinator,IIC–MoE|
- IICAmbassador,MHRD|MentorofChange,AtalInnovationMission.|

❖ **Research/Innovation-National Funded Projects, Government of India:**

- **Role:** Team Leader - Principal Investigator | **AICTE-funded** "PCM assisted cold storage Flask for Mother's Milk"| **₹6 Lakhs**–National Yukti Innovation Challenge 2024-26|**InProgress**|
- **Role:** Coordinator| Innovation and Entrepreneurship Development Centre | **DST (IEDC) | 2012-17**|Department of Science and Technology funded| **₹ 45.5 Lakhs |Completed**|
- **Role:** Coordinator|*Entrepreneurship Awareness Camps (EAC)*| Supported by Prestigious EDII , Gujarat| National Science & Technology Entrepreneurship Development Board (**NSTEDB**), Government of India| Funded Project : **₹ 3 Lakhs | Period:2013-2014,2014-2015,2015-2016,2016-17,2017-18,2019-20. | Completed**|
- **Role:**Co-PrincipalInvestigator|**DSTfunded**|GreenEnergyfarm|**₹21Lakhs**|2020| **Completed**|
- **Role:** Co- Principal Investigator| **AICTE funded** |Research Promotion Scheme (RPS) |Cryo Processing of Materials|**₹12.5 Lakhs | Completed**|

❖ **Invention Patent:**

- **Patent:**PCM-AssistedColdStorageFlask|Granted|InventionPatentNo.393422| Intellectual Property India2022 |20 Years term Validity |**Present** |

❖ **Publications & Authorship:**

- **ResearchPapers**|Published–02 SCI- 08 Scopus|10InternationalJournals|
 - **Books**| Co-Author: Engineering textbook(Civil & Mechanical domains)|
1. **Mechanical properties of cryogenically treated AA5083 friction stir welds** , N Vasudevan, GB Bhaskar, TS Rao, M Mohandass , Materials Testing 61 (12), 1129-1134, 2019 , DOI: 10.3139/120.111430.
 2. **Investigation on corrosion behavior of cryogenically treated friction stir welded AA5083.** V Neelamegam, BG Bhavani, M Muthukrishnan, SR Tadvika, Mechanics 26 (5), 442-449,2020 ,DOI: <https://doi.org/10.5755/j01.mech.26.5.23571>
 3. **Ecoflow femmecare - Sanitary Napkin Disposal Via Chemical Breakdown.** Sharmila P, Vasudevan N, Nivedhitha M, Yoghamithra R , October 2024,Conference: 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) ,DOI:10.1109/ICPECTS62210.2024.10780390.(2024)
 4. **Evaluation of Critical Buckling Strength of Columns: An Experimental Study.** V Alfred Franklin1, a, J Stephen Leon1, b, T M Chenthil Jegan2, c, Godwin,N.Vasudevan.AIP Conference Proceedings 2520, 030003 (2022);
 5. **Corrosion study on AA5083 aluminum alloy-boron carbide composite.** N Vasudevan, GB Bhaskar, AR Prasad, SM Suresh,Materials Today: Proceedings 16, 1124-1129 ,2019

6. Design and Development Of Phase Change Material Oriented Cold Storage Flask. Prasad, A.R., Vasudevan, N., Krishnaraj, S., Suresh, S.M., Balaji , international journal of mechanical engineering and technology 9 (8),2018.
7. **Fracture strength evaluation of composite lamination using modified WEK model**
Alfred Franklin, V., Chenthil Jegan, T.M., Bhaskar, G.B., Mohandass, Vasudevan.N International Journal of Mechanical and Production Engineering Research , 2018
8. **An approach to the development of a green energy farm using free flowhorizontal axis water turbine.**SM Rajendra Prasad, A., Krishnaraj, S., Ramachandran, S., Vasudevan, N., Suresh International Journal of Mechanical Engineering and Technology 8 (7), 2017
9. **Experimental investigation and optimization on machining of Cryogenically treated Al-Sic composites.** VN Vasudevan N, Hariharan R 2014 ,International Journal of Applied Engineering Research 6 (2)
10. **Book Chapter:** Autonomous uav swarms: Innovations and applications. S Suresh, D Velmurugan, N Vasudevan, DSR Samundi, R Elayaraja ,**Innovations and Developments in Unmanned Aerial Vehicles**, 95-128,2025

❖ **Invited Lectures & Conferences:**

- **Resource Person** in 52+events (FDPs, Guest lectures and Conferences)
- **Delivered Expert Talk** on Entrepreneurship| EDII–NSTEDBIEDC|
- **Jury**|TamilNadu-School Innovation Development Project(SIDP)|2022,2024,2025 ,2026 |
- **Workshops/Attended**-32|26FDPs|21Conferences|
- **Workshops/Organized:**2ManufacturingFDPs•1EnvironmentalWorkshop|
- **EntrepreneurshipCamps**/14Camps| Govt funded|DST/EDII/NSTEDB|

❖ **Consultancy & Professional Engagement:**

- **Vasudevan Neelamegam** |Director Identification Number(DIN):07766149|Registered with the Registrar of Companies (ROC) , Ministry of Corporate Affairs (MCA) | **Present** |
- **Director:** Pammal Makkal Nala Nidhi Ltd. (Finance &MarketAnalytics) | Registered with the Registrar of Companies (ROC) , Ministry of Corporate Affairs (MCA) |CIN: U65992TN1985PLC012170 | **Present** |
- **Director:** Chill Chozha Refro Solutions Private Limited | Registered with the Registrar of Companies (ROC), Ministry of Corporate Affairs (MCA Chennai | CIN U32909TN2025PTC176890. | **Present** |
- Director |iLearningGateway India Inc |2005–2009|

❖ **Startup Engagement:**

- **Consultant:** Super Sea Food Products(Tuticorin) | Rajan Engineering (Chennai)|
- **Director:** Chill Chozha Refro Solutions Private Limited | Registered with the Registrar of Companies (ROC), Ministry of Corporate Affairs (MCA Chennai | CIN U32909TN2025PTC176890. | **Present** |

❖ Leadership & Social Contributions:

- **Executive Committee Member**|Sivananda Saraswathi Sevashram(NGO)|**Present**|
- **Secretary**|Pammal Tamil Sangam|**Present**
- **Educational Counselor**|SivanandaGurukulam|2000–2004|
- **Charter President**,RotaryClubofPallavaramCentral|**222730**|RID3231|
- **District Vice Chairman**|RotaryLiteracyMission,|2022-23|RID3231|
- **District Chairman**|SocialInnovation|2023-24|RID3231|
- **District Chairman**|SchoolCompetitions|2024-25|**Present**|

❖ Awards & Recognition:

- **Rajyapuraskar Award**, Governor of TamilNadu (Scouts,1991)
- **Best Teacher Award** ,Sri Muthukumaran Institute of Technology (2005)
- **Best Outgoing President**,RotaryDistrict3231(2021)
- **Faculty Excellence Award**, Sri Sairam Engineering College (100% Result)

❖ Technical & Soft Skills:

- Cryogenic & Material Processing|PatentFiling|Research|Leadership
- ProjectCoordination|EntrepreneurshipMentorship|CounselingPsychology
- Workshop/Conference / Organization|StakeholderEngagement.

❖ Membership in professional Societies:

1. Life member in “The Indian Society for Technical Education”.
2. Member in “Society of Automotive Engineers (SAE)”.
3. Member in “Institute of Electrical and Electronics Engineers”
4. Member in “Rotary International”