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CAREER SUMMARY:

A seasoned professional with 20 years of experience in academic, research and IT services. Extended my expertise by carrying out active research in dynamic analysis of locomotive vehicles of Indian railways as dissertation of my doctoral degree. Expertise in design and implementation of Product Lifecycle Management (PLM) solutions, functional and automotive domain consulting in design and analysis of automotive systems. Anchored the initiatives for developing, mentoring and building competency of fresh team members as well as young engineering graduates in academics especially on Dassault and Siemens CAD/CAE/PLM tools.

Contributed in the roles of department Assistant HoD, Department placements and accreditation coordinator in the current organization. Also handled roles as implementation consultant, functional consultant and application engineer by delivering engineering and automation solutions for clients of US and European Automotive industries during my stay in IT services sector. Well conversant with CAD data management, engineering process management, product configuration management, manufacturing process management, product compliance, engineering manufacturing collaboration, enterprise system integration and digital manufacturing.

PROFESSIONAL EXPERIENCE:

Organization	Designation / Division	Period	Skill Areas
Aditya Institute of Technology and Management, Tekkali, AP, India	Professor/ Mechanical Engineering	21 st Oct 2009 to Till Date	Finite Element Analysis, CAD/CAM, Rapid Prototyping, Industrial Automation, Dynamics of Machinery, Vibrations, CFD
Geometric Global Ltd., Pune, MH, India	Senior Software Engineer/ Manufacturing IT Services	29 th Oct 2007 to 15 th Sept 2009	CAE, Digital Manufacturing, PLM (Siemens & Dassault Application suite), Functional Lead and functional QA.
Tata Consultancy Services Ltd., Hyderabad, India	Asst. Systems Engineer/ Engineering and Industrial Services	28 th July 2005 to 5 th Oct 2007	NX CAD (Ufunc) customization, Digital Manufacturing
Unique Inflatables Ltd., Hyderabad, India	Design Engineer (CAD)	1 st Feb 2002 to 31 st March 2003	Design and Analysis using Pro/E, ANSYS

Academic Qualifications:

Qualification	Board / University	Division	Date/Month of Award
Ph.D (Mechanical Engineering)	Andhra University, Visakhapatnam, AP, India	Awarded	31-12-2020
Master of Technology in Earthquake Engineering (Structural Dynamics)	Indian Institute of Technology (IIT) Roorkee, Uttarakhand, India	FIRST	13-07-2005
Bachelor of Engineering (Mechanical Engineering)	Andhra University College of Engineering, Visakhapatnam, AP, India	FIRST	25-04-2001

Subjects Handled: Finite Element Methods & Analysis, Industrial Automation, Vibrations, CAD/CAM, Engineering Drawing, Metrology, Dynamics of Machinery, Introduction to Robotics & Mechatronics.

Languages Known:

English (Read, Speak and Write) - Proficient
Hindi (Read, Speak and Write) - Intermediate
Telugu (Read, Speak and Write) - Proficient
Japanese (Speak) - Basic

Research Publications:

(<https://www.scopus.com/authid/detail.uri?authorId=56990860200>)

(<https://scholar.google.com/citations?user=obWH0MkAAAAJ&hl=en>)

SCI/Scopus Indexed /SJR Quartile Journal & Book Chapter Publications: -

1.	Sharma, S.K., Sharma, R.C., Lavania, S., Palli, S. , Avesh, M., Industry-Driven Approach for ANFIS-Based Intelligent Control Suspension System with MR Damper for Enhanced Ride Quality in Passenger Rail Vehicles for Technological Investigations, 2024, National Academy Science Letters, 47 (4), pp. 391-394.
2.	Pant, M., Sharma, A., Palli, S. , Sharma, S.K., Sharma, R.C., A Review and Analysis of Factors Affecting EV Adoption for Sustainable and Energy-Efficient Transportation Systems using Analytic Hierarchy Process Approach, 2024, International Journal of Vehicle Structures and Systems, 16 (2), pp. 133-139.
3.	Menda, V., Dora, S., Palli, S. , Rallabandi, S.R., Sharma, R.C., Sharma, N., Bondala, R., Mechanical and wear characteristics of aluminium-7075/graphene/TiB ₂ prepared by stir casting, 2024, Engineering Research Express, 6 (2), Art. no. 025571.
4.	Sharma Chandmal Rakesh, Sharma Neeraj, Palli Srihari , Sharma Sunil Kumar, Joshi Sudhir, Rallabandi Sivasankara Raju, and Sharma Ashwini. “Dynamic behavior of three-wheel vehicle with inerter-based dynamic absorber suspension system”, Noise & Vibration Worldwide, SAGE Publishers, 2024, 55(4-5), pp:253-263, https://doi.org/10.1177/09574565241243398
5.	Avesh, M., Palli, S. , Hossain, I., Sharma, R.C., “Blockchain Solutions for Cost-Efficiency and Traceability in Indian Food Distribution”, <i>Energy, Environment, and Sustainability</i> , 2024, Part F3228, pp. 125–146.
6.	Palli, S., Koona, R., Duppala, A., Vinodbabu Chintada, Sharma, R.C.,and Doddi, R.N., “Deterministic and Probabilistic Forced Response Analysis of a Railway Coach”, <i>Energy, Environment, and Sustainability</i> , 2024, Part F3228, pp. 65–89
7.	Sharma A, Sharma VS, Gupta S, Sharma RC, Palli S , Sharma N. “Additive manufacturing in the COVID-19 pandemic: Equipment and challenges?”, <i>Journal of Micromanufacturing</i> . 2024; https://doi.org/10.1177/25165984241228083
8.	Azad Duppala, Srihari Palli , Rallabandi Sivasankara Raju, Dowluru Sreeramulu, Suman Pandipati, Pavan Kumar Rejeti. “Advancements in Vibration Analysis for Rail Vehicle Dynamics”, <i>Intelligent Transportation System and Advanced Technology</i> , Springer Nature, 2024, https://link.springer.com/book/10.1007/978-981-97-0515-3
9.	Rakesh Chandmal Sharma, Srihari Palli , Azad Duppala, Sono Bhardawaj, Sunil Kumar Sharma, Neeraj Sharma and Ajay Sharma. “Rigid Body Analysis of Ride Behaviour of Roadway Vehicle using Lagrangian Dynamics”, <i>International Journal of Vehicle Structures and Systems</i> , Mechaero Foundation, Volume 16, Issue 1, 2024, https://doi.org/10.4273/ijvss.16.1.15
10.	Sivasankara Raju Rallabandi, Devi Prasad Pilla, Sreeramulu Dowluru, Srihari Palli , Neeraj Sharma, Sunil Kumar Sharma, and Rakesh Chandmal Sharma. “Critical evaluation of epoxy-hemp-pineapple-palm fiber composites using hybrid AHM-TOPSIS technique for sustainable structural applications”, <i>Journal of the Chinese Institute of Engineers</i> , Taylor and Francis, Volume 47, Issue 3, 2024, https://doi.org/10.1080/02533839.2024.2308250
11.	Sivasankara Raju Rallabandi, Lakshmi Srinivas, Srihari Palli , Rakesh Chandmal Sharma, Neeraj Sharma, Ashwini Sharma, and Sunil Kumar Sharma. “A contrastive characterization of pure Mg and AZ91D alloy based on the testing of mechanical, corrosion, wear, and erosion properties”, <i>Engineering Research Express</i> , IOP Publishing House, Volume 6, Issue 1, 2024, https://doi.org/10.1088/2631-8695/ad16a2
12.	Ranganath Boddepalli Ananth, Duppala Azad, Palli Srihari , Rao Lokireddy Venkata Venugopal, and Sharma Rakesh Chandmal, “Numerical analysis and experimental study of FRP composites for damping applications”, <i>AIP Conference Proceedings</i> , 2978 (1), art. no. 060001, 2024. https://doi.org/10.1063/5.0184802
13.	Bammidi Roopsandeep, Madivada Hymavathi, Dowluru Sreeramulu, Palli Srihari , Sharma Rakesh Chandmal, and Muddada Venkatesh, “Mechano-tribological investigations of Al-%Wt. of boron nitride as metal-ceramic composites”, <i>AIP Conference Proceedings</i> , 2978 (1), art. no. 020017, 2024. https://doi.org/10.1063/5.0182965
14.	Gopala Rao L.V.V., Satyanarayana V.S.V., Sharma Rakesh Chandmal, Palli Srihari , Raturi Anuj, Kharola Ashwani, and Sharma Ashwini, “Preview control of the random response of a full car vehicle model traversing a rough road”, <i>International Journal of Vehicle Noise and Vibration</i> , Inderscience Publishers, 20

	(1), pp. 70 - 88, 2024. https://doi.org/10.1504/IJVNV.2024.138105 , ISSN:1479-1471.
15.	Sharma RC, Palli S , Dharmana L, et al., “Simulation of transient dynamic response of a locomotive considering its flexibility and rigidity”, Noise & Vibration Worldwide, SAGE Publishers, 2024; https://doi.org/10.1177/09574565231212684 , ISSN:9574565.
16.	Raju S., Palli S. , Devi Prasad P., Menda V.R., Ramakrishna B., "A hybrid AHP-TOPSIS, MOORA technique for multi-objective optimization of thermal, mechanical, and water absorption behavior of epoxy/hemp, pine apple, and palm fiber composites", Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A, Taylor & Francis Publications, 47(2), 2024, https://doi.org/10.1080/02533839.2023.2274092 , ISSN:02533839
17.	Saikiran C., Palli S. , Bondala R., Sharma R.C., Sreeramulu D., Dontikurti R., “Experimental Investigation on Thermal Behaviour of Silicon Carbide (SiC) based Polymer Composites under Hygrothermal Conditions”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 2023, 15(2), pp. 222 - 226, https://doi.org/10.4273/ijvss.15.2.15 , ISSN:09753060
18.	Sharma Rakesh Chandmal, Palli Srihari , Bhardawaj Sono Jha, Abhishek Kumar , Duppala Azad, Sharma Neeraj, Sharma Sameer, and Dhiman Neeraj, “Dynamic Behaviour of Railway Vehicle under Bump and Pothole Track Irregularities”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 2023, 15 (4), pp. 566 – 569, https://doi.org/10.4273/ijvss.15.4.22
19.	Bhardawaj Sono, Jha Abhishek Kumar, Sharma Rakesh Chandmal, Palli Srihari , Lokanadham Dharmana, Sharma Neeraj, and Dhiman Neeraj, “Finite Element Analysis of Two Disk Rotor System used in Automobile Turbochargers”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 2023, 15 (4), pp. 501 - 504, https://doi.org/10.4273/ijvss.15.4.09 , ISSN: 09753060
20.	Naveen Yatirajula, Lokanadham Dharmana, Naidu Doddi Ramajogi, Sharma Rakesh Chandmal, Palli Srihari , and Lila Manish Kumar, "An Experimental Study on the Influence of Blended Karanja Biodiesel on Diesel Engine Characteristics", International Journal of Vehicle Structures and Systems, Maftree Publishers, 2023, 15(2), pp. 154 - 160, https://doi.org/10.4273/ijvss.15.2.02 , ISSN: 09753060
21.	Jyotiprasad G., Dowluru, S., Rallabandi, S.R., Sharma, R.C., Palli Srihari , “Thermal-Structural and Macromechanical Behavior Analysis of Graphite-Based Laminated Composite”, SAE Technical Papers, 2023, https://doi.org/10.4271/2023-01-5041 , ISSN: 01487191.
22.	D Rambabu, Srihari Palli , DB Rao, D Azad, BA Ranganath, and I Hossain, “Design and Analysis of Turbocharger Turbine Wheel Using Composite Materials”, Transportation Energy and Dynamics, Springer Nature Publications, 2023, ISBN 978-981-99-2149-2, https://doi.org/10.1007/978-981-99-2150-8 , pp.381-397. (Book Chapter)
23.	Srihari Palli , Sivasankara Raju Rallabandi, Sreeramulu Dowluru, Azad Duppala, Venkatesh Muddada, Pavankumar Rejeti, and Raghuvver Dontikurti, “Process Management in Green Manufacturing”, Transportation Energy and Dynamics, Springer Nature Publications, 2023, ISBN 978-981-99-2149-2, https://doi.org/10.1007/978-981-99-2150-8 , pp.307-322. (Book Chapter)
24.	Rakesh Chandmal Sharma, Srihari Palli and Sunil Kumar Sharma, “Ride analysis of railway vehicle considering rigidity and flexibility of the carbody”, Journal of the Chinese Institute of Engineers, Taylor and Francis Publishers, 46:4, 2023, pp.355-366, https://doi.org/10.1080/02533839.2023.2194918
25.	Rakesh Chandmal Sharma, Srihari Palli and Sono Bharadwaj, “A Review of Wheel-Rail Dynamic Behavior on Curved Tracks” International Journal of Vehicle Structures and Systems, Maftree Publishers, 15(1), 2023, pp: 19-25, https://doi.org/10.4273/ijvss.15.1.04 , ISSN:09753060
26.	Bikram Jit Singh, Srihari Palli , Pramod Kumar and Shashi Bahl, “Behavioral Investigation of Hardness Profile for Dissimilar TIG-Weldment between P22 and P91 Steels”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 15(1), 2023, pp: 31-36, https://doi.org/10.4273/ijvss.15.1.06 , ISSN:09753060
27.	Rakesh Chandmal Sharma, LVV Gopala Rao, Sunil Kumar Sharma, Srihari Palli , VSV Satyanarayana, “Analysis of Lateral Stability and Ride of an Indian Railway Constrained Dual-Axle Bogie Frame”, SAE International Journal of Commercial Vehicles, 16(2), 2022, pp:213-228, https://doi.org/10.4271/02-16-02-0014 , ISSN: 1946391X .

28.	Dharmana Lokanadham, Rakesh Chandmal Sharma, Srihari Palli , Sono Bhardawaj, “Wear Rate Modelling and Analysis of Limestone Slurry Particulate Composites Using the Fuzzy Method”, International Journal on Recent and Innovation Trends in Computing and Communication, Auricle Global Society of Education and Research, 10(10, 2022, pp: 133-143, https://doi.org/10.17762/ijritcc.v10i1s.5818 , ISSN: 23218169.
29.	Rakesh Chandmal Sharma, Srihari Palli , Sono Bharadwaj, L.V.V. Gopalarao, “Advances in Human Biodynamic Modeling for Analysis of Whole-Body Vibrations”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 14(4), 2022, pp: 503-511, https://doi.org/10.4273/ijvss.14.4.17 , ISSN:09753060.
30.	RC Sharma, S Palli , LVVG Rao, A Duppala, S Sharma, “Four-Wheel Vehicle Response under Bump, Pothole, Harmonic, and Random Excitations Using Bond Graph/Simulink Technique”, SAE International Journal of Commercial Vehicles, 16(2):2022, pp:129-139, https://doi.org/10.4271/02-16-02-0008 , ISSN: 1946391X.
31.	Satyanarayana, V., Sharma, R., Sateesh, B., Gopala Rao, L., Mohanarao, N., Srihari Palli . “Optimum Response of a Nonlinear Passive Vehicle Suspension System under Random Road Excitations”, SAE International Journal of Commercial Vehicles, 16(1):2022, pp:49-60, https://doi.org/10.4271/02-16-01-0004 , ISSN: 1946391X.
32.	S Palli , A Duppala, RC Sharma, LVV Rao. “Dynamic Simulation of Automotive Vehicle Suspension Using MATLAB Simulink”, International Journal of Vehicle Structures & Systems, Maftree Publishers, 14 (3), 2022, pp:310-314, https://doi.org/10.4273/ijvss.14.3.04 , ISSN:09753060.
33.	Gopala Rao L, Sharma RC, Satyanarayana V, Srihari Palli . “Stochastic optimal preview control response of a quarter-car nonlinear suspension model using spectral decomposition method”, Noise & Vibration Worldwide, SAGE Publishers, May 2022, Vol 53, Issue 4-5, pp:225-232, https://doi.org/10.1177/09574565221093234 , ISSN: 09574565.
34.	Rakesh Chandmal Sharma, Srihari Palli , M Avesh, Neeraj Sharma, “Vibration Isolation of Railway Vehicle Car body using Semi-active Suspension”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 13 (4), pp.482-487, 2021. https://doi.org/10.4273/ijvss.13.4.17 , ISSN:09753060.
35.	Rakesh Chandmal Sharma, Neeraj Sharma, Gurpreet Singh, Srihari Palli , “Modeling and Simulation of Human Body-Vehicle-Track System for the Investigation of Ride Comfort”, SAE International Journal of Commercial Vehicles, 15(2), pp.175-188, 2021. https://doi.org/10.4271/02-15-02-0008 , ISSN: 1946391X .
36.	Rakesh Chandmal Sharma, Srihari Palli , Neeraj Sharma and Sunil Kumar Sharma, “Ride Behaviour of a Four- wheel Vehicle using H Infinity Semi-active suspension control using Deterministic and Random Inputs”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 13 (2), pp.234-237, 2021. https://doi.org/10.4273/ijvss.13.2.18 , ISSN:09753060.
37.	Srihari Palli , Raghuveer Dontikurti, Rakesh Chandmal Sharma, and Neeraj Sharma, “Analysis of Dynamic Response of a Railway Locomotive using ANSYS”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 13(2), pp.250-255, 2021. https://doi.org/10.4273/ijvss.13.2.21 , ISSN:09753060.
38.	S. Sharma, R.C. Sharma, S.K. Sharma, N. Sharma, S. Palli and S. Bhardawaj, “Vibration Isolation of the Quarter Car Model of Road Vehicle System using Dynamic Vibration Absorber”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 12(5), pp: 513-516, 2020. https://doi.org/10.4273/ijvss.12.5.05 , ISSN:09753060.
39.	Sharma, R.C., Avesh, M., Sharma, S.K., Palli, S. , Sharma, N., “Linear and non-linear stability analysis of a constrained railway wheel axle”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 12(2), pp. 128-133, 2020. https://doi.org/10.4273/ijvss.12.2.04 , ISSN:09753060.
40.	Srihari Palli , Ramji Koona, Sunil Kumar Sharma and Rakesh Chandmal Sharma, “A Review on Dynamic Analysis of Rail Vehicle Coach”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 10(3), pp. 204-211, 2018. https://doi.org/10.4273/ijvss.10.3.10 , ISSN:09753060 .
41.	Rakesh Chandmal Sharma, Sunil Kumar Sharma & Srihari Palli , “Rail Vehicle Modelling and Simulation using Lagrangian Method”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 10(3), pp. 188-194, 2018. https://doi.org/10.4273/ijvss.10.3.07 , ISSN:09753060 .
42.	Rakesh Chandmal Sharma, Srihari Palli , Sunil Kumar Sharma, Mritunjoy Roy, “Modernization of Railway Track with Composite Sleepers”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 9(5), pp. 321-329, 2017. https://doi.org/10.4273/ijvss.9.5.10 , ISSN:09753060.
43.	Rakesh Chandmal Sharma, Srihari Palli & Ramji Koona, “Stress and Vibrational Analysis of an Indian Railway RCF Bogie”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 9(5), pp. 296-302, 2017. https://doi.org/ijvss.9.5.06 , ISSN:09753060.

44.	Srihari Palli , Rakesh Chandmal Sharma & P.P.Dhanunjaya Rao, “Dynamic Behaviour of a 7 DoF Passenger Car Model”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 9(1), pp. 57-63, 2017. https://doi.org/10.4273/ijvss.9.1.12 , ISSN:09753060.
45.	Rakesh Chandmal Sharma & Srihari Palli , “Analysis of creep force and its sensitivity on stability and vertical-lateral ride for railway vehicle”, International Journal of Vehicle Noise and Vibration, Inderscience Enterprises Ltd., 12(1), pp. 60-76, 2016. https://doi.org/10.1504/IJNV.2016.077474 , ISSN: 1479-148X.
46.	Srihari Palli , Ramji Koon, Rakesh Chandmal Sharma & Venkatesh Muddada, “Dynamic Analysis of Indian Railway Integral Coach Factory Bogie”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 6(4), pp. 16-20, 2015. https://doi.org/10.4273/ijvss.7.1.03 , ISSN:09753060
47.	Srihari Palli & Ramji Koon, “Analyses of dynamic response of a railway bogie”, International Journal of Vehicle Noise and Vibration, Inderscience Enterprise Ltd., 11(2), pp. 103-113, 2015. https://doi.org/10.1504/IJNV.2015.070015 , ISSN: 1479-148X.
48.	Sunil Kumar Sharma, Rakesh Chandmal Sharma, Anil Kumar & Srihari Palli , “Challenges in Rail Vehicle-Track Modeling and Simulation”, International Journal of Vehicle Structures and Systems, Maftree Publishers, 7(1), pp. 1-9, 2015. https://doi.org/10.4273/ijvss.7.1.01 , ISSN:09753060
49.	K Swathi & P.Srihari , “Heat Transfer Enhancement in a Tube Using Rectangular Strip Inserts”, International Journal of Applied Engineering Research, 10(20), pp. 41532 – 41544, 2015, ISSN: 09734562 https://www.ripublication.com/ijaer10/ijaerv10n20_125.pdf
50.	CJ Rao, DN Rao, P Srihari , “Influence of cutting parameters on cutting force and surface finish in turning operation”, Journal of Procedia Engineering, Elsevier Science Direct, 64, pp. 1405-1415, 2013. https://doi.org/10.1016/j.proeng.2013.09.222 , ISSN:18777058.

UGC Listed/ Google Scholar International Journal Publications: -

36.	S Palli , RC Sharma, RS Raju, S Bhardawaj, “Thermal Analysis of Emergency Container in Steel Industries Using FEA”, Res Militaris, 2022, 12(5), pp:1356-1365.
37.	RC Sharma, S Palli , LVVG Rao, S Bhardawaj, AK Jha, “Vibration And Ride Comfort Analysis of Four-Wheel Vehicle System Using Lagrangian Dynamics”, Res Militaris, 2022, 12(5), pp:1333-1344.
38.	RC Sharma, S Palli , AK Jha, S Bhardawaj, SK Sharma, “Vibration And Ride Comfort Analysis of Railway Vehicle System Subjected to Deterministic Inputs”, Res Militaris, 2022, 12(5), pp:1345-1355.
39.	P.Srihari, D. Sreeramulu, A. Raghupathi Rao, N. Durgacharan, Ch. Bhaskara Rao & Y. Eswar Rao, “INTERFACING OF ROBOTS FOR MANUFACTURING AUTOMATION”, International Journal of Engineering Applied Sciences and Technology, 7(3), Pp.273-290, 2022.
40.	Raghuveer Dontikurti , P Srihari , K Mohana Rao , Siva , G Balu & R Mahesh, “Development of Automated Material Handling System for Small Scale Industries”, Journal of Advanced Research in Mechanical Engineering and Technology, Advanced Research Publications, 9(2), pp.1-5, 2022.
41.	Srihari Palli , Rakesh Chandmal Sharma, Sunil Kumar Sharma, and Vinod Babu Chintada, “On Methods Used For Setting the Curve for Railway Tracks”, Journal of Critical Reviews, 7(19), pp. 241-246, 2020. https://doi.org/10.31838/jcr.07.19.26 ISSN: 23945125.
42.	Srihari Palli , Rakesh Chandmal Sharma, Sunil Kumar Sharma, Venkatesh Muddada, and Neeraj Sharma, “A Case Study on Noise Pollution and its Effects”, Journal of Critical Reviews, 7(19), pp. 261-267, 2020. https://doi.org/10.31838/jcr.07.19.29 , ISSN: 23945125.
43.	Srihari Palli & Ramji Koon, “Eigenvalue Analysis of Railway Coach Using Finite Element Method”, IJTRE (Google Scholar), 5(9), pp. 3728-3734, 2018.
44.	Srihari Palli & Ramji Koon, “Derailment Causes of Railway Vehicle and its prevention”, IJTRE (Google Scholar), 5(9), pp. 3736-3740, 2018.
45.	S.S.Prabhu, P.Srihari & D.Ramajogi Naidu, “Transient thermal analysis of modified emergency Container”, International Journal for Research in Applied Science & Engineering Technology, 4(8), pp. 336 – 340, 2016.
46.	P.Sivakumar, P.Srihari & N. Haribabu, “Optimization of Liquid Cold Plates Using Computational Fluid Dynamics”, International Journal of Engineering Trends and Technology, 27(5), pp. 274 – 277, 2015.
47.	P.Chennakesavarao & P.Srihari , “Design Optimization of Heat Sink in Power Electronics”, International Journal of Engineering Research and Applications, 4(10), pp. 83 – 94, 2014.
48.	P. Srihari , D. Azad & D. Sreeramulu, “Optimization of rail inserts using finite element analysis”, International Journal of Engineering, Science and Technology, Multicraft Publications, 6(2), pp. 65-75, 2014.

49.	P. Srihari , D. Azad & Dr.C.J.Rao, “Stress Analysis of Embedded Rail Insert in Prestressed Concrete Sleeper”, International Journal of Engineering Research & Technology, ESRSA Publications, 2(10), pp. 1632-1641, 2013.
50.	N.Kirankumar & P. Srihari , “Two-Dimensional Natural Convection in a Square Enclosure with Differentially Heated Two Walls”, International Journal of Mechanical Engineering & Technology, IAEME Publishers, 4(6), pp. 171-179, 2013, ISSN:09766340.

International Conferences: -

1.	P.Srihari , Dowluru Sreeramulu and Shiva, “A novel approach for recognising the milling features using IGES file in prismatic parts”, National Conference on Modern Trends in Mechanical Engineering, MTiME-2012, GIET, Gunupur, Odisha, 18th -19th Feb 2012.
2.	Dr. C. J. Rao, Dr. D. Nageswara Rao, & P. Srihari , “Influence of cutting parameters on cutting force and surface finish in turning operation”, International Conference on Design and Manufacturing, IConDM 2013, IITDM, Kancheepuram, Journal of Procedia Engg., Elsevier Science Direct, 1405-1415, July 18th -20th 2013.
3.	Srihari Palli , Dr.Ramji Koon, Venkatesh Muddada, “Dynamic Analysis of Indian Railway Bogie”, International Conference on Newest Drifts in Mechanical Engineering ICNDME-2014, MM University, Mullana, Ambala, 627-632, Dec 20th & 21st 2014.
4.	Srihari Palli & Azad Duppala, “Design Optimization of SGCI Insert Embedded in Pre Stressed Concrete Sleeper”, International Conference on Advances in Engineering and Technology ICAET'2014, IIE, Singapore, 457-463, March 29th & 30th, 2014.
5.	Srihari Palli , Ramji Koon, Sunil Kumar Sharma and Rakesh Chandmal Sharma, “Railway Coach Dynamics- A Review”, International Conference on Emerging Trends in Engineering Science and Technology -2018, MM University, Mullana, Ambala, Haryana, 45-49, Feb 16th & 17th 2018.
6.	Srihari Palli , D.Sreeramulu & Satish kumar Adapa, “Design and Analysis of Go-Kart”, International Conference on Emerging Trends in Engineering Science and Technology -2018, MM University, Mullana, Ambala, Haryana, 4-8, Feb 16th & 17th 2018.
7.	Srihari Palli , Rakesh Chandmal Sharma, Sunil Kumar Sharma, Venkatesh Muddada, Neeraj Sharma, “A Case Study on Noise Pollution and its Effects”, International Conference on Contemporary Advances in Mechanical Engineering, ICCAME-2020, Chandigarh Engineering College, Landran, Mohali, Punjab, 24th & 25th July 2020.
8.	Srihari Palli , Rakesh Chandmal Sharma, Sunil Kumar Sharma, Vinod Babu Chintada, “On Methods Used For Setting the Curve for Railway Tracks”, International Conference on Contemporary Advances in Mechanical Engineering, ICCAME-2020, Chandigarh Engineering College, Landran, Mohali, Punjab, 24th & 25th July 2020.
9.	Srihari Palli , Siva Sankara Raju.R, Varaprasad.V, and Dinesh.P, “Simulation of Dynamic Response of Automotive Vehicle Suspension Using MATLAB and Simulink”, International Virtual Conference on Mechatronics, Automation and Cyber Physical Systems MAC-2020, Vellore Institute of Technology, Vellore, Tamilnadu, 26th and 27th June 2020.
10.	Sakshi Sharma, RC Sharma, SK Sharma, Neeraj Sharma, Srihari Palli , Sono Bhardawaj, “Vibration Isolation of the Quarter Car Model of Road Vehicle System using Dynamic Vibration Absorber”, 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020), AMITY University, Uttarpradesh, 5th to 7th August 2020.
11.	Ranganath B.A., Azad Duppala, Srihari Palli , LVV Gopala Rao and Rakesh Chandmal Sharma, “Numerical Analysis and Experimental Study of FRP composites for Damping Applications”, International Conference on Recent Trends in Material Science with Computational Analysis, Graphic Era University, Dehradun, July 15-16, 2022, AIP Conference Proceedings (Scopus Indexed in 2024).
12.	Roopsandeep Bammidi, Hymavathi Madivada, Sreeramulu Dowluru, Srihari Palli , Rakesh Chandmal Sharma and Venkatesh Muddada, “Mechano-Tribological Investigations of Al-%Wt. of Boron Nitride as Metal Ceramic Composites”, International Conference on Recent Trends in Material Science with Computational Analysis, Graphic Era University, Dehradun, July 15-16, 2022, AIP Conference Proceedings (Scopus Indexed in 2024)

CONFERENCES/WORKSHOPS/FDPS/SEMINARS ORGANISED

1. Co-Convener for 1 week FDP on **Role of IOT and Machine Learning in Design and Manufacturing** from 11th July to 17th July' 2022 under AICTE STUTI program.
2. Co-Convener for 2 Week AICTE sponsored Faculty Development Program on **Fault Diagnosis, Condition Monitoring and Structural Dynamic Analysis** from 6th November'2017 to 19th November'2017.
3. Convener for Five Day Faculty Development Program on **Advances and Applications of Composites, Nano Materials and Nano Fluids** sponsored by TEQIP-II from 17th December'2015 to 21st December'2015 at AITAM, Tekkali.
4. Organizing member for One day workshop on **Outcome Based Education** (In compliance with NBA Accreditation) on 19th January, 2013 at AITAM, Tekkali.
5. Organizing Coordinator for 2 Day Faculty Development Program on **New Horizons in Mechanical Engineering**, at AITAM, Tekkali in March'2013.
6. Organizing Coordinator for 2 Day Faculty Development Programs on **Computational Fluid Dynamics and its Applications**, at AITAM, Tekkali in March'2012.

CONFERENCES, SEMINARS, FACULTY DEVELOPMENT AND SHORT TERM TRAINING PROGRAMS ATTENDED

S. No.	Name of the Conference/Workshop/FDP	Venue/ Conducted by	Month & Year
1	AICTE recognised one Week FDP on Development of Automation Competencies	NITTTR, Chandigarh, Ministry of Education, Government of India	March 2023
2	AICTE recognised one Week FDP on Optimization for Engineering Problems with MATLAB	NITTTR, Chandigarh, Ministry of Education, Government of India	December 2022
3	AICTE sponsored Online Short-term Training Course on Industrial IOT and Robotics	NITTTR, Chandigarh, Ministry of Education, Government of India	November 2021
4	Online Elementary FDP on Smart Manufacturing through Digital Manufacturing	AICTE Training and Learning (ATAL) Academy, Centurion University, Odisha.	November 2021
5	Specialization Training Certificate in Digital Manufacturing & Design Technology including 9 courses	University of Buffalo, New York in collaboration with Coursera	May 2020
6	Autodesk Certified Professional: AutoCAD for Design and Drafting	Autodesk in collaboration with Coursera	May 2020
7	Collaborative Robot Safety: Design & Deployment	State University of New York in collaboration with Coursera	May 2020
8	Six Sigma Tools for Analyze	Kennesaw State University of Georgia in collaboration with Coursera	May 2020
9	Two Week FDP on Advances in CFD Simulations of Thermal Systems	Gayatri Vidya Parishad College of Engineering, Visakhapatnam	28th October to 8th November 2019
10	FDP on Current Trends in Aerospace	AN University, Guntur in Association with APSSDC	4th to 6th February'2019
11	FDP on Noise and Vibration Control of Structures: Engineering Applications	JNT University, Kakinada sponsored by AICTE – Margadarshan	26th November to 1st December' 2018
12	FDP on Dassaults systems 3D- Experience Centre	VIIT, Visakahapatnam in Association with APSSDC	30th August to 1st October'2018

13	Workshop on Finite Element Methods	IIT Hyderabad	13th to 18th March' 2017
14	Train the Trainer Program on NX Design for Experienced CAD Users	AITAM, Tekkali /Jytra Engg. Services	30th January to 15th March 2016
15	International Workshop on Reviving Education by Implementing Active & Guided Inquiry Experiences in Science, Technology, Engineering, Math & Management	AITAM, Tekkali	3rd to 7th August' 2015
16	Two day International Conference on Newest Drifts in Mechanical Engineering	MM University, Mullana	20th & 21st December' 2014
17	Seminar on Twenty First Century, the dawn of Digital Era: Pedagogical Issues of Technical Teachers	AITAM, Tekkali	15th & 16th November' 2014
18	Two day International Conference on Advances in Engineering & Technology	International Institute of Engineers, Singapore	29th and 30th March' 2014
19	One day workshop on Challenges in Structural Design, Dynamics & Testing	Andhra University College of Engineering, Visakhapatnam	30th and 31st January' 2014
20	Two day Faculty Development Program on New Horizons in Mechanical Engineering	AITAM, Tekkali	22nd and 23rd March '2013
21	One day workshop on Machinery Condition Monitoring	Andhra University College of Engineering, Visakhapatnam	14th March' 2013
22	Workshop on Outcome Based Education	AITAM, Tekkali	19th January' 2013
23	Two Day Staff Development Program on CFD and its Applications	AITAM, Tekkali	30th and 31st March' 2012
24	One day workshop on Product Life Cycle Management	MVGR College of Engineering, Vizianagaram	7th January' 2012
25	Two day workshop on Advanced Applications of FEM	GMRIT, Rajam	25th& 26th November' 2011
26	Twelve Day AICTE sponsored Faculty Development Program on Alternate Energy Resources and Alternate Fuels	JITM, Parlakhemundi, Orissa	17th to 29th May' 2010
27	Two day AICTE sponsored workshop on Nanotechnology and its Applications	AITAM, Tekkali	12th & 13th March' 2010

TRAININGS CONDUCTED

Year	Title	Presented to	Location	Organised by
2017 & 2019	NX Essentials for CAD Designers	B.Tech Mechanical Engg. (3 rd and 4 th Year Students)	Siemens PLM Authorised Training Centre	AITAM, Tekkali
2010	Add-On Course on AutoCAD 2D Drafting and 3D Modelling	B.Tech Mechanical Engg. (2 nd Year Students)	CAD/CAM Lab, AITAM, Tekkali	AITAM, Tekkali
2009	Manufacturing Process Management, PLM	PSA- Digital Factory Team	Pune	Geometric Ltd., Pune
2008	Tecnomatix eM-Planner	PSA-Tecnomatix Development Team	Pune	Geometric Ltd., Pune
2007	SolidWorks Drafting	Project Team (TCS)	Hyderabad	TCS, Hyderabad
2007	e-Matrix Infocentral	Project Team (TCS)	Hyderabad	TCS, Hyderabad

KEY ASSIGNMENTS HANDLED:

#Projects Handled for RamTech Ltd., Hyderabad/ Aditya Institute of Technology and Management, Tekkali:

Role : **CAE Consultant**

Responsibilities

- Reading the legacy Drawing details and prepare CAD drawings.
- Generate orthographic views of 3D drawings as per the customer templates.
- Developing the 2D and 3D CAD models of the required components.
- Develop EBOM and MBOM for the assembly drawings.
- Perform structural/thermal analysis through FE/Numerical simulations.
- Training the designers on CAD/CAM/CAE tools.
- Modularize the work load and manage the work flow & resources.

#Project 1 : Design of Electronic Packages for Gyro Assembly

Customer : BHEL, Hyderabad

Software Used & Duration : UG-NX, 2010 to 2011 (8 months)

#Project 2 : Design and Seismic Analysis of Control Panels

Customer : Varuna Subsystems

Software Used & Duration : UG-NX & Ansys, 2011 to 2013 (14 months)

#Project 3 : Design and Analysis of Cannister Testing Chamber

Customer : ISRO

Software Used & Duration : UG-NX & Ansys, 2011 to 2012 (9 months)

#Project 4 : Optimization of Liquid Cooling Plate in Electronic Devices

Customer : BHEL, Hyderabad

Software Used & Duration : UG-NX, during 2013-14

#Project 5 : Functional Requirements Analysis and Quality Specifications of
ACTCAD software

Customer : Jytra Engineering Services, Hyderabad

Software Developed & Duration : ACTCAD, During 2015-16

#Project 6 : **Siemens Authorised Training Centre Lab Deployment**

This is an assignment taken up in Mechanical Engineering Department, Aditya Institute of Technology and Management as a part of establishing value added laboratory course Siemens NX CAD/CAM and NX Nastran CAE for Mechanical Engineering B.Tech. Students.

***Projects Handled at Geometric Ltd., Pune, India: -**

Role : **Functional Lead & Functional QA**

Responsibilities

- Understanding the Functional Requirements and preparing Functional Specifications.
- Handling Functional Trainings.
- Schema Migration and Comparative Data Model Study including variants.
- Tecnomatix and Delmia 3Tier Architecture deployment.
- Active Directory Setup for customized Security Applications.
- Preparing Test cases, Regression Testing and preparing System Test Plans.
- Demonstrating the Workflow of the delivery to the client.
- Impact Analysis, Effort Estimation & Resource Management

Software : PLM, Tecnomatix, Delmia

Project #1 Atrium Migration

Description Atrium is the Customized eM-Planner version 6.1 of Tecnomatix for maintaining the Manufacturing Process data of the Power Train Assembly Shop of European Automotive OEM. As per the Client's requirement, the present version of the Custom applications in Atrium has to be migrated to Delmia DPE R17.

Project #2 Atrium SP3a

Description Atrium is the Customized eM-Planner version 6.1 of Tecnomatix for maintaining the Manufacturing Process data of the Power Train Assembly Shop of European Automotive OEM. As per the Client's requirement, present custom applications need to be enhanced to suite the end user needs.

Project #3 Atrium Evolutions

Description Atrium is the Customized eM-Planner version 6.1 of Tecnomatix for maintaining the Manufacturing Process data of the Power Train Assembly Shop of European Automotive OEM. Evolutions Project involves enhancements in the custom applications of Asynchronous Mode, Documentation, Import-Excel and Serial Life.

***Projects Handled at Tata Consultancy Services, Hyderabad, India: -**

Project#1 JDSU Design Work Co-Ordination

Role Module Leader

Description QT- Series Objects are various legacy items of the client JDS Uniphase; an electronic Manufacturing Company. Project activities include the RoHs Compliancy check in the Clients PDM database, 3D to 2D Drawing conversion, Drawing/Drafting Views update, BOM Connections for various Assemblies, Preparing a CP for the draft and unreported items, and update the RoHs Status through MOMI (Matrix Oracle Manufacturing Interface).

Software: e-Matrix Info Central, SoildWorks 2006

Project#2 Digital Manufacturing Innovation Centre

Title 1: BIW Spot welding Process Simulation

Description The overall project includes understanding the requirements and presenting the customers with a Proof of Concept such that it validates the plant functioning and helps the customer to understand the need of the software for their plant.

Carried out the following activities:

- Defining kinematics to the equipment involved in the work cell.
- Performed process validation, Robotic Simulation, Weld gun selection, Robot Reachability analysis and Collision analysis

Software: Process Designer, Process Simulate (Tecnomatix Products)

Title 2: Simulation of Material flow from Raw material store to Finished Component Store

Description: This is a Pilot Project done as a part of developing eM-Plant case study with the Digital Manufacturing practice team at Tata Consultancy Services Ltd. It consists of simulating Material Flow from Raw Material store through Machine Shop to Finished Component Store using basic objects in eM-Plant (Plant Simulation Tool)

Carried out the following activities:

- Modelling of the facility according to the layout.
- Process parameters definition.
- Development of simulation logics.

Software: PlantSimulation7.6 (Tecnomatix Product), SIMTALK

Project#3 EDT NX3 Plotting

Description In the client's Job Flow, it is necessary to enhance the plot functionality from the older UG-NX2 version to UG-NX3 version in such a way that the drawing sheet is converted into a Tiff image and is placed in the user specified Directory.

Carried out the following activities:

- Coding through Ufunc (UGOpen API's).
- Module Testing.
- Documentation.

Software: Unigraphics NX3, C, Ufunc, UG Open API's

Project#4 General Motors - PDL

Description Customizing various UGNX3 UI styler's and call backs as per the client's (General Motors, Detroit) needs.

Carried out the following activities:

- Coding through Ufunc (UGOpen API's).
- Module Testing.
- Documentation.

Software: Unigraphics NX3, C, Ufunc, UG Open API's

Academic Projects/ Thesis: -

Ph.D Thesis : **Some Studies on Vertical Dynamic Behavior of Indian Railway ICF Sleeper Coach** from Mechanical Engineering Department, Andhra University, Visakhapatnam

Passed Year: 2020

Supervisor : **Prof.K.Ramji,**

Software : Unigraphics NX, ANSYS APDL, MATLAB

#ILP Project : Loan Monitoring System at TCS Training, Coimbatore

Technologies : Java, DB2

Description This project has been done as the part of curriculum during Initial Learning Programme at TCS, Coimbatore for a duration of 1 month in August 2005. It deals with automation of the Loan Monitoring System of a Finance Company for issuing loans in easy monthly instalments and generating bills and imposing penalties for late payments of the instalment amounts.

#M. Tech Thesis : Optimization of an SGCI (Railway Sleeper) insert, at IIT Roorkee

Software used : **Ansys**

Description This thesis has been done as the part of curriculum during Master of Technology from July 2004 to July 2005. This project deals with the design optimization of the railway sleeper insert that connects the Railway Track with the sleeper forming a flexible connection between them. It also compares the results obtained for the same with Neural Network optimization.

#M.Tech Project : Fatigue Analysis of Railway Steel Truss Bridge, at IIT Roorkee

Software : **C, STAAD-PRO**

Description This project has been done as a part of the curriculum during mid semester of M.Tech curriculum from December 2003 to June 2004. It deals with the fatigue life calculation of a steel truss bridge under different moving trainloads.

#B.E (Under Graduation) Project : Kinematic Analysis of Robot Arm Manipulators

Key Achievements

- Fellow Member of Institute of Engineers (India)
- Certified Chartered Engineer by Institute of Engineers (India)
- Outstanding reviewer for reviewing peer reviewing “Journal of Engineering Research and Reports”.
- Reviewer for Inspire Manak Awards, 2021 to 2023, National Innovation Foundation of India, Department of Science & Technology, Government of India.
- Reviewer for International Journal of Production Research, Taylor & Francis Publications; Journal of Structures & Journal of Materials Today, Elsevier Science Direct and Science Domain, UK Journals.
- Session Chair for International Conference of Advances in Engineering & Technology conducted by International Institute of Engineers, Singapore during March 29-30’ 2014.
- Resource Person for two student workshop “Software Application for Product Development in Manufacturing” conducted by Centurion University of Technology and Management, Parlakhemundi during October 5th & 6th ‘2013.
- Setup Siemens PLM Center of Excellence in Department of Mechanical Engineering, Aditya Institute of Technology and Management, Tekkali and trained more than 100 students in Siemens NX professional certificate course.
- Technical Consultant in CAD/CAM, Digital Manufacturing & PLM/MPM to RamTech Manufacturing Industries and Murari Software Solutions, Hyderabad and executed consultancy projects.
- Specialization Training Certificate in Digital Manufacturing & Design Technology including 9 courses from University of Buffalo, New York in collaboration with Coursera in May 2020.
- Autodesk Certified Professional: AutoCAD for Design and Drafting from Autodesk in collaboration with Coursera in May 2020.
- Collaborative Robot Safety: Design & Deployment from State University of New York in collaboration with Coursera in May 2020.
- Six Sigma Tools for Analyze from Kennesaw State University of Georgia in collaboration with Coursera in May 2020.
- Elite Certification in NPTEL online courses conducted by IIT's in Introduction to Machine Learning in September’2022, Principles of Mechanical Vibration in April’2018, Outcome Based Pedagogic Principles for Effective Teaching and October’2018 and Elite Silver Certification in Manufacturing Automation.
- Trainer's Certificate in NX Design for Experienced CAD Users by Siemens Industry Software India Pvt. Ltd. in 2016.
- Master’s Certificate in CAD/CAM from Central Institute of Tool Design, Hyderabad, in February 2002.
- Certificate in AUTOCAD from VIZAG CADD CENTRE in 2000-01.
- Ranked 4th during M.Tech at IIT, Roorkee.
- Secured GATE Score of 96+ percentile in 2003 with AIR 941.
- Consistently Secured 1st OR 2nd rank from class VI to class XII during higher secondary education in college.

REFERENCES

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I (Dr. Srihari Palli), hereby declare that the information furnished above is true to the best of my knowledge.



(Dr.Srihari Palli)



भारतीय प्रौद्योगिकी संस्थान रुड़की

(पूर्व रुड़की विश्वविद्यालय)

अभिषद् की अनुशंसा पर

भूकम्प इंजीनियरी में प्रौद्योगिकी अधिस्नातक

की उपाधि

पल्लि श्रीहरि

को, जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2005 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता है।

10 अंकीय मापक्रम में इनका संचित कोटि अंक माध्य 7.79 है।

भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 21 सितम्बर 2005, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(Formerly University of Roorkee)

Upon the recommendation of the Senate hereby confers the degree of

Master of Technology in Earthquake Engineering

on

PALLI SRIHARI

who has successfully completed in the year 2005 the requirements prescribed under the regulations for the award of this degree

with a Cumulative Grade Point Average of 7.79 on a 10 point scale.

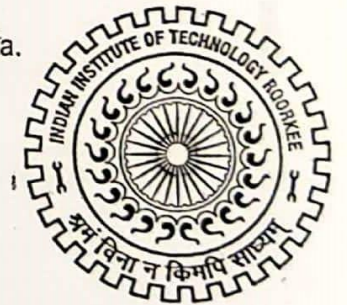
Given this day, the 21st of September 2005, under the seal of the Institute at Roorkee in the Republic of India.

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अध्यक्ष, अभिशासक परिषद्
Chairman, Board of Governors

निदेशक एवं अध्यक्ष, अभिषद्
Director & Chairman, Senate

कुलसचिव
Registrar





ANDHRA UNIVERSITY
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF ENGINEERING

This is to certify that

PALLI SRIHARI

has been duly admitted to the

Degree of Doctor of Philosophy

MECHANICAL ENGINEERING

in

in this University, he/she having been declared to be

qualified to receive the same in **2021**

Given under the Seal of the University



Visakhapatnam, A.P., India.



[Signature]
Vice-Chancellor

Date : 30th November 2021