



Dr.Srihari Palli

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CAREER SUMMARY:

A seasoned professional with 17+ 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 mechanical systems.

Contributed in the roles of department Assistant HoD, placement coordinator, NBA/NAAC/Autonomous accreditation coordinator in the current organization. Also handled roles as implementation consultant, functional consultant and application engineer by delivering solutions pertaining to digital manufacturing using Siemens and Dassault PDM and PLM application suites for various clients of 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.

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.

PROFESSIONAL EXPERIENCE:

Organization	Designation / Division	Period	Skill Areas
Aditya Institute of Technology and Management	Associate Professor/ Mechanical Engineering	Oct 2009 to Till Date	FEM/FEA, CAD/CAM, Rapid Prototyping, Automation in Manufacturing, Dynamics of Machinery, Mechanical Vibrations, CFD
Geometric Ltd.	Senior Software Engineer/ Manufacturing IT Services	Oct 2007 to Sept 2009	Digital Manufacturing, PLM (Siemens & Dassault Application suite), Functional Lead and functional QA.
Tata Consultancy Services Ltd.	Asst. Systems Engineer/ Engineering and Industrial Services	July 2005 to Oct 2007	NX (Ufunc) customization, Digital Mfg., PLM (Siemens Application suite).
Unique Inflatables Ltd.	Design Engineer (CAD)	Feb 2002 to March 2003	Design and Analysis using Pro/E, ANSYS

Academic Qualifications:

Qualification	Board / University	Division	Year
Ph.D (Mechanical Engineering)	Andhra University, Visakhapatnam	Awarded	2020
M. Tech (Dynamics -Structural)	Indian Institute of Technology (IIT) Roorkee	FIRST class	2005
B.E (Mechanical Engineering)	Andhra University College of Engineering, Visakhapatnam	FIRST Class	2001

SKILLS PROFILE:

System Design and Development

- Requirements Analysis, Functional Solution, Developing Functional Specs & Use cases, PLM Implementation, testing, documentation and user training.

Special Software

- **PLM** – Siemens' Tecnomatix— Plant Simulation, eM-Planner, Process Designer, Process Simulate; Exposure to Siemens' Teamcenter Engg. and Teamcenter Mfg., Dassaults' Delmia Process Engineer, Delmia Process Manager

- **CAD/CAM/CAE** – Siemens' UG NX3.0 to NX 10 _Part Modeling, Assembly, Mfg.; Dassaults' CATIA V5 - Part Modeling, Surfacing, Assembly; Hands on Experience on 3D Experience modeling, ABAQUS Simulia; ANSYS; Hypermesh.

Research Publications:

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

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

Scopus Indexed/SCI Journal Publications: -

1. 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. doi: 10.4273/ijvss.13.4.17.
2. 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.1-14, 2021. doi: 10.4271/02-15-02-0008.
3. 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. doi: 10.4273/ijvss.13.2.18.
4. **Srihari Palli**, Raghuvveer 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. doi: 10.4273/ijvss.13.2.21.
5. **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. doi: 10.31838/jcr.07.19.26.
6. 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. DOI: 10.4273/ijvss.12.2.04.
7. **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. doi: 10.31838/jcr.07.19.29.
8. 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. doi: 10.4273/ijvss.12.5.05.
9. **Srihari Palli**, Ramji Koon, 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. doi: 10.4273/ijvss.10.3.10.
10. 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. doi: 10.4273/ijvss.10.3.07.
11. 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. doi: 10.4273/ijvss.9.5.10.
12. Rakesh Chandmal Sharma, **Srihari Palli** & Ramji Koon, "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. doi: 10.4273/ijvss.9.5.06.
13. **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. doi: 10.4273/ijvss.9.1.12.
14. 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>
15. **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. doi: 10.4273/ijvss.7.1.03.
16. **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>.

17. 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. doi: 10.4273/ijvss.7.1.01.
18. 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.
19. 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. DOI: 10.1016/j.proeng.2013.09.222.

UGC Listed/ Google Scholar International Journal Publications: -

20. **Srihari Palli** & Ramji Koonna, "Eigenvalue Analysis of Railway Coach Using Finite Element Method", *IJTRE (Google Scholar)*, 5(9), pp. 3728-3734, 2018.
21. **Srihari Palli** & Ramji Koonna, "Derailment Causes of Railway Vehicle and its prevention", *IJTRE (Google Scholar)*, 5(9), pp. 3736-3740, 2018.
22. 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.
23. 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.
24. 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.
25. **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.
26. **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.
27. 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.

International Conferences: -

1. 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, IIITDM, Kancheepuram, Journal of Procedia Engg., Elsevier Science Direct, 1405-1415, July 18th -20th 2013.*
2. **Srihari Palli**, Dr.Ramji Koonna, 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.*
3. **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.*
4. **Srihari Palli**, Ramji Koonna, 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.*
5. **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.*
6. **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.*
7. **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.*
8. **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.*
9. 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.*

CONFERENCES/WORKSHOPS/FDPS/SEMINARS ORGANISED

1. 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.
2. 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.
3. Organizing member for One day workshop on **Outcome Based Education** (In compliance with NBA Accreditation) on 19th January, 2013 at AITAM, Tekkali.
4. Organizing Coordinator for 2 Day Faculty Development Program on **New Horizons in Mechanical Engineering**, at AITAM, Tekkali in March'2013.
5. 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 sponsored Online Short-term Training Course on Industrial IOT and Robotics	NITTTR, Chandigarh, Ministry of Education, Government of India	November 2021
2	Online Elementary FDP on Smart Manufacturing through Digital Manufacturing	AICTE Training and Learning (ATAL) Academy, Centurion University, Odisha.	November 2021
3	Specialization Training Certificate in Digital Manufacturing & Design Technology including 9 courses	University of Buffalo, New York in collaboration with Coursera	May 2020
4	Autodesk Certified Professional: AutoCAD for Design and Drafting	Autodesk in collaboration with Coursera	May 2020
5	Collaborative Robot Safety: Design & Deployment	State University of New York in collaboration with Coursera	May 2020
6	Six Sigma Tools for Analyze	Kennesaw State University of Georgia in collaboration with Coursera	May 2020
7	Two Week FDP on Advances in CFD Simulations of Thermal Systems	Gayatri Vidya Parishad College of Engineering, Visakhapatnam	28 th October to 8 th November 2019
8	FDP on Current Trends in Aerospace	AN University, Guntur in Association with APSSDC	4 th to 6 th February'2019
9	FDP on Noise and Vibration Control of Structures: Engineering Applications	JNT University, Kakinada sponsored by AICTE – Margadarshan	26 th November to 1 st December' 2018
10	FDP on Dassaults systems 3D- Experience Centre	VIIT, Visakahapatnam in Association with APSSDC	30 th August to 1 st October'2018
11	Workshop on Finite Element Methods	IIT Hyderabad	13 th to 18 th March' 2017
12	Train the Trainer Program on NX Design for Experienced CAD Users	AITAM, Tekkali /Jytra Engg. Services	30th January to 15th March 2016
13	International Workshop on Reviving Education by Implementing Active & Guided Inquiry Experiences in Science, Technology, Engineering, Math & Management	AITAM, Tekkali	3 rd to 7 th August' 2015
14	Two day International Conference on Newest Drifts in Mechanical Engineering	MM University, Mullana	20 th & 21 st December' 2014
15	Seminar on Twenty First Century, the dawn of Digital Era: Pedagogical Issues of Technical Teachers	AITAM, Tekkali	15 th & 16 th November' 2014

16	Two day International Conference on Advances in Engineering & Technology	International Institute of Engineers, Singapore	29 th and 30 th March' 2014
17	One day workshop on Challenges in Structural Design, Dynamics & Testing	Andhra University College of Engineering, Visakhapatnam	30 th and 31 st January' 2014
18	Two day Faculty Development Program on New Horizons in Mechanical Engineering	AITAM, Tekkali	22 nd and 23 rd March '2013
19	One day workshop on Machinery Condition Monitoring	Andhra University College of Engineering, Visakhapatnam	14 th March' 2013
20	Workshop on Outcome Based Education	AITAM, Tekkali	19 th January' 2013
21	Two Day Staff Development Program on CFD and its Applications	AITAM, Tekkali	30 th and 31 st March' 2012
22	One day workshop on Product Life Cycle Management	MVGR College of Engineering, Vizianagaram	7 th January' 2012
23	Two day workshop on Advanced Applications of FEM	GMRIT, Rajam	25 th & 26 th November' 2011
24	Twelve Day AICTE sponsored Faculty Development Program on Alternate Energy Resources and Alternate Fuels	JITM, Parlakhemundi, Orissa	17 th to 29 th May' 2010
25	Two day AICTE sponsored workshop on Nanotechnology and its Applications	AITAM, Tekkali	12 th & 13 th 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:

#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, SolidWorks 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...

- Outstanding reviewer for reviewing peer reviewing "Journal of Engineering Research and Reports".
- Reviewer for Inspire Manak Awards, 2021, National Innovation Foundation of India, Department of Science & Technology, Government of India.
- Session Chair for International Conference of Advances in Engineering & Technology conducted by International Institute of Engineers, Singapore during March 29-30' 2014.
- Reviewer for International Journal of Production Research, Taylor & Francis Publications and Science Domain, UK Journals.
- 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 for NPTEL online courses conducted by IIT's in 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

1. Dr.M.Ramji

Professor and HOD,
Department of Mechanical and Aerospace Engg.,
IIT, Hyderabad, Telangana, India.
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2. P. RAVI KIRAN

Director (Sales), Dassault Systemes India Pvt. Ltd.,
Bangalore, Karnataka, India.
Mobile: +91- 9901914797.

3. Dr. K.Ramji (PhD Supervisor)

Professor, Department of Mechanical Engg.,
Andhra University College of Engineering, Andhra
University, Visakhapatnam, AP, India.
Mobile: +91-9440670584, +91-9182009697.

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

(Dr.Srihari Palli)