

An enthusiastic & highly energy driven Mechanical Engineering professional; targeting assignments related to with an organization of high repute in leading industry



Profile Summary

- Mechanical Engineer with nearly 18 years of specialized experience in Teamcenter PLM, with deep expertise in solution architecture and program management. Proven track record of delivering end-to-end PLM implementations—from strategic planning and customer engagement to technical execution and post-deployment support. Strong capability in aligning Teamcenter functionalities with business objectives, driving digital transformation, and leading cross-functional teams across complex enterprise programs.
- Successfully led multiple Teamcenter implementations, covering installation, configuration, customization, and integration. Conducting technical and functional workshops with global stakeholders to define implementation strategies, develop specifications, and ensure alignment across business and IT.
- Hands-on experience in Teamcenter data model cleanup by modifying XML and removing obsolete classes using BMIDE utilities. Proficient in writing SQL queries to validate and verify data model changes directly within the database.
- Skilled in architecting scalable PLM solutions by mapping complex business processes to Teamcenter features, including CAD/CAE data management, workflow automation, access control, and reporting. Played a key role in **Multisite** implementations, enabling real-time collaboration across geographically distributed teams by setting up and synchronizing multiple Teamcenter sites, managing replication servers, and ensuring data consistency across instances.
- Led successful site consolidation projects involving data migration and system unification from multiple Teamcenter environments into a single, centralized instance. This included planning and execution of data mapping, cleansing, and transformation strategies to ensure smooth transition with minimal disruption to business operations, while maintaining data integrity and security.
- Implementing Teamcenter Variants and Options, enabling configurable product structures and supporting modular product architecture. Also contributed to the basic implementation of Manufacturing Process Planning (MPP), including setup of MBOM structures, process planning elements, and integration between EBOM and MBOM to align engineering and manufacturing domains.
- Extensive hands-on experience with core Teamcenter modules: BMIDE, Active Workspace (AWC), Dispatcher, Report Builder, & Structure Manager.
- Proficient in server-side customization, including Post Actions, Pre-conditions, SOA services, and EPM handlers.

- Strong knowledge of Teamcenter architecture, data modeling, Access Manager, and enterprise organizational modeling. Adept at CAD integrations, BOM management, and automating file conversions (JT, TIF, STEP, DXF, PDF) via OOTB and Java-based Dispatcher extensions.
- Providing technical direction to development and QA teams, managing escalations, and ensuring continuous solution improvement. Skilled in AWC implementation, including installation, configuration, and customization to meet customer-specific requirements.

Core Competencies

Design & Development

Defect Analysis & Bug Fixing

Teamcenter clone & Upgrade

Innovative Ideas

Teamcenter Implementation

Teamcenter Deployment

Troubleshooting

Quality Compliance

Value Engineering

Technical Skills

Teamcenter

BMIDE

ITK Customization

AWC Configuration

AWC Customization

ITK, Java, SOA & JS

Workflow Design

Cad Integration

Highlights

- Teamcenter Implementation
- Teamcenter Upgradation – Cloning of Teamcenter, DLL files are updated, BMIDE Template Update
- ITK Customization
- Java Customization

Current Project at Birla Soft Ltd. (Clients – Paccar India Pvt. Ltd)

Technical Lead,

Sep '24- Currently working

- Led the upgrade of Teamcenter from 11.4 to 12.4 to 13 to 2406 through a structured three-step process.
- Performed data model cleanup by modifying XML configurations to remove unnecessary classes and streamline the Teamcenter data schema. Utilized the BMIDE Updater utility to apply changes efficiently and ensure consistency across environments. Created and executed SQL queries to identify, verify, and validate and confirm the safe removal of obsolete classes in the database, ensuring clean removal without impacting existing data or system functionality.

- Developed an innovative TIF conversion solution using Java and Teamcenter Visualization Convert & Print, primarily leveraging OOTB tools.
- Consolidated TIF conversion, WIP stamping, release processing (with/without stamping), and automated TIF file transfer to a designated server into a single JAR, while attaching TIF datasets to Item Revisions.
- Replaced an existing complex solution that involved Gnex Plot, NX executables, DLL files, and multiple batch files with a simplified and efficient OOTB-based approach.
- Refactored workflows for stamping, plotting, and TIF & JT conversion by replacing custom handlers with OOTB handlers, integrating executables and batch files.
- Implemented Teamcenter Multisite architecture using ODS and IDSM for seamless collaboration across global sites. Configured rule-based data replication, access control, and synchronization between domains. Ensured consistent object mapping, validated cross-site data integrity, and supported replication infrastructure setup.
- Led Teamcenter site consolidation by migrating data from multiple legacy environments into a unified system.. Coordinated end-to-end migration activities, minimized business disruption, and validated post-migration access and functionality. Provided technical documentation and support throughout the transition.

Project at LTTS (Clients – Marelli & LT-RPM)

Teamcenter Consultant,
Sep '23- Sep '24

- Active Work Space Customization, Installation and Configuration

Project include Advanced Search Functionality: Developed and optimized an advanced search module within a Teamcenter environment, focusing on retrieving and displaying query attributes dynamically. Implemented efficient solutions for handling complex search criteria, including advanced query caching, attribute management, and localization of search tips. Leveraged services such as ViewModelObjectService and AdvanceSearchLovSevice to enhance user interface responsiveness and accuracy. Ensured seamless integration with existing data models and improved the reliability of search operations within the application

- Upgradation of Teamcenter 10.2 to 12.4 to 14.2 (2 step upgrade)

It includes OS (WS 2016 to WS 2019) and database upgrade (Oracle 12c to 19c)

Migration of database form TC10.2 to TC14.2

- Create distributed environment for Server Managers – 6 pool manager and 2 Web server on different host
- Created Volume server and FSC cache server for each volume
- FMS master configuration for 6 pool manager and volume server and FSC cache server

- Process improvement by using OOTB functionality
- ITK and Java codes are updated for Upgrade.
- Teamcenter Template updated for Upgrade

Project at Mazagon Dock Shipbuilders Ltd

Mazagon Dock Shipbuilders Ltd. (Client) Mumbai

Teamcenter Consultant,

June '22-Nov '22

- AWC Installation and AWC configuration
- Adding Custom command, Tiles using AWC Customization
- Stylesheet modification
- Access of Teamcenter Properties are managed by modifying Stylesheet.

Sub Projects:

PLM Teamcenter Project at Mazagon Dock Ship Builders Ltd.

- Teamcenter Clone creation, installation & Upgrade from Teamcenter 11.2 to Teamcenter 12.4
- Project Include creation of production clone (TC 11.2) on development.
- Upgrade TC 11.2 BMIDE template to TC 12.4
- Unused templates are deleted from BMIDE & database through utility
- Upgrade DLL files of TC11.2 to TC12.4 either debugging source code or modifying source code
- Upgrade Tc 11.2 clone environment to TC 12.4
- Deployment of TcRA on development & Production environment
- Project includes deployment of TcRA war file on Jboss
- Troubleshoot issues at the time of deployment
- Installation of 2Tier & 4Tier Teamcenter

Teamcenter Configuration:

- To create customized searches for objects in Teamcenter database using Query Builder.
- To control the user data access using Access Manager.
- To create user, defining role, create group using Organization.
- Create your Workflow Templates using Workflow Designer and apply handlers on the process (Action handler & Rule handler).
- To create /modify Product Structure and apply Revision & Variant Rule to product structure using Structure Manager.

Project at Force Motors Ltd.

- Teamcenter Installation, Implementation, Integration, Configuration Customization, & Active Workspace (AWC) installation.
- Integrated Solid Edge with Teamcenter, ensuring seamless collaboration.
- Implemented attribute mapping between Teamcenter and Solid Edge for efficient data synchronization.
- Designed and developed workflows for "To Be Reviewed," "Release," and "Approve" statuses.

- Enhanced workflow logic to update the status of ItemRevision and Dataset if rejected by the manager.
- Automated workflow processes to generate STEP, PDF, and DXF files with stamping.
- Implemented OOTB handlers for workflow validation, including status checks and initialization of workflows on ItemRevision only.
- Added OOTB handlers to convert drawing files to DXF & PDF and Par files to STEP.
- Developed a custom BOM report using PLMXML and Stylesheet for improved reporting.
- Created custom automation by using ITK customization to assign work statuses to ItemRevisions and Datasets when created.
- Automated the population of the drawing title block with attributes such as Drawn By, Checked By, Approved By, and corresponding dates from workflow data.

Projects in Tata Technologies Ltd. (Siemens PLM Teamcenter End User)

Implemented **Teamcenter Variants and Options** to support configurable product structures and modular architecture. Set up logical configurations, option rules, and variant conditions to manage complex product definitions. Supported basic **Manufacturing Process Planning (MPP)** by establishing MBOM structures and aligning them with EBOMs for process planning. Ensured smooth data flow between engineering and manufacturing domains.

Designed and developed a custom **ITK utility** in Teamcenter to generate reports on pending and released objects, capturing key details such as Item ID, User, Revision, Project, Start Date, Current Date, Number of Days, and Status. The solution tracked the lifecycle progress of relevant product data, calculated durations from workflow initiation to current date, and exported results in CSV format. The utility was scheduled for automated runs with email distribution for regular stakeholder updates

Weight & Cost Reduction Project for 0.8L CRAIL Engine:

1. Created a new Concept for air filter mounting Bracket, and initiated: 1. 5 kg weight reduction
2. New concept created for Alternator mounting & omitted the Alternator belt tensioner with 1.1 kg weight reduction

Projects in Cummins India Ltd.

Worked on various Engine application such as Power generation, Industrial, Automotive & Marine Construction, Gas & Rail applications. Designed, Developed & Packaged Engine components of Intake, Exhaust, Cooling & Fuel systems. Worked on design change management, design release & BOM structure management

Projects in Alpha Industries Pvt. Ltd

Jigs Fixture & Tooling design by using Pro-e. Designed Clutch housing fixture for heavy vehicle

Previous Experience

- **Birla Soft Ltd. Pune (Client) Paccar India Pvt. Ltd. Pune**
Technical Lead,
Sep '24-Currently Working

- **L&T Technology Services Ltd. Pune**
Teamcenter Consultant,
Sep '23-Sep 24
- **Mazagon Dock Shipbuilders Ltd. (Client) Mumbai, (Mazagaon - Dock)**
Teamcenter Consultant,
June '22-Nov 22
- **Force Motors Ltd., Pune**
Assistant Manager,
Aug '18-Jan '21
- **Tata Technologies Ltd., Pune (Siemens PLM Teamcenter End User)**
Sr. Design Engineer,
Nov '12-Jul '18
- **MTU India Pvt. Ltd., Pune**
Design Engineer
Nov '11-May '12
- **Cummins India Ltd., Pune**
Junior Manager
Jul '07-Nov '11
- **Alpha Industries Pvt. Ltd., Pune**
Design Engineer
Dec '03-Jan '07

Education

- Diploma in production technology
Institute – Marathwada Institute of Technology (MIT), Aurangabad
Jun '97-Dec '00
- B.Tech Mechanical (correspondence)
Institute – Janardan Rai Nagar Rajasthan Vidyapeeth University
Jun '13-Jun '17

Personal Details

Date of Birth: 2nd Jan 1980

Languages Known: English, Marathi & Hindi

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