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 www.renechip.com

ABOUT US

At Renechip, we believe the future of manufacturing lies at the intersection of Engineering Excellence, Digital Innovation, and Intelligent Automation. We bring together deep engineering expertise, advanced digital technologies, and industry-focused solutions to help organizations transform the way they design, manufacture, and operate.

We partner with industries to design, develop, automate, and deliver innovative solutions that address complex engineering and business challenges. From engineering design and industrial automation to digital engineering, BIM, software solutions, and Industry 4.0 technologies, our integrated capabilities enable businesses to improve productivity, quality, operational efficiency, and cost effectiveness.

By combining domain expertise with cutting-edge technology, we create scalable and practical solutions tailored to each customer's unique requirements. Our approach focuses on reducing manual effort, optimizing processes, improving decision-making, and enabling organizations to achieve sustainable and measurable business outcomes.

Driven by innovation, integrity, collaboration, and an unwavering commitment to customer success, Renechip aims to be a trusted engineering and technology partner. We continuously evolve with emerging technologies and industry needs, helping businesses build smarter operations, accelerate digital transformation, and create a more efficient, sustainable, and future-ready manufacturing ecosystem.



VISION

To become the most trusted engineering and technology partner, empowering manufacturing industries through innovation, engineering excellence, and intelligent solutions that create sustainable value.

MISSION

We combine Engineering expertise, Digital innovation, and Customer-centric thinking to deliver practical, high-impact solutions that help industries operate smarter, grow sustainably, and succeed in an evolving world.



Engineering Excellence



Digital Innovation



Intelligent Automation



Customer Partnership



Integrity & Reliability



WHO WE ARE

Engineering innovation meets

Digital Transformation

to build smarter

Renechip Technology Services Pvt. Ltd. is a next-generation engineering and technology company focused on delivering practical, high-impact solutions that help industries operate smarter, grow sustainably, and succeed in an evolving world.

We deliver specialized engineering and technology solutions tailored to the unique challenges and requirements of modern industries.



Our Core Strengths



Innovative Solutions

Engineering and digital solutions tailored to real-world needs.



Customer Centric

We partner with our clients for long-term impact and value.



Integrated Expertise

Multi-domain capabilities across engineering, digital, and automation.



Sustainable Growth

Driving efficiency, quality, and sustainable business outcomes.

Our Journey

2013 - digisAilor

Founded as a software company

Established in Tuticorin, India with a focus on developing software solutions for businesses.

2016 - Team Expansion

Grew our team and strengthened capabilities across domains.

2019 - Global Reach

Opened our Singapore office, establishing Digisailor's first international presence in the APAC region.

2023 - Global Expansion

UAE & Middle East entry, USA operation and crossed 400+ clients.

2024 - Renechip

Renechip is established as a unit of Digisailor to drive engineering innovation and excellence.

2026 - Innovation at Scale

Invested in advanced tools and digital engineering solutions.



OUR CAPABILITIES

BUSINESS VERTICALS

Renechip delivers engineering excellence and digital innovation across five key business verticals, empowering industries to build smarter, operate efficiently, and grow sustainably.

Railway

- Railway Plant Layouts
- Carbody Shell Shop Design
- Bogie Shop Engineering
- Assembly Shop Setup
- Testing Shop & Track Planning

Software Solutions

- Custom Software Development
- Web & Mobile Applications
- Enterprise Solutions
- Cloud & DevOps
- Data Analytics & Dashboards

Industrial Automation

- PLC / HMI / SCADA
- Robotics & Vision Systems
- IIoT & Smart Systems
- Custom Machines & Solutions
- Retrofit & Modernization

BIM & Digital Construction

- BIM Modeling (3D / 4D / 5D)
Clash Detection
- Quantity Take-Off
- Rebar & Steel Detailing
- Construction Document
Generation
- BIM Coordination & 4D Planning

Digital Engineering & Automation Solutions

- Design Automation
- Workflow Automation
- Data & Process Automation
- Digital Engineering
- PLM & Lifecycle Support
- Document & Data Management

Engineering Services / Staffing

- Engineering Design
- Mechanical Design
- Documentation & Support
- Project-based
Engineering Teams
- Skilled Resources On-Demand

Our Commitment

ONE GOAL
Engineering Excellence
at Every Step

ONE COMMITMENT
Delivering Value with
Integrity

ONE APPROACH
Innovate. Automate.
Transform.

ONE IMPACT
Smarter Solutions.
Stronger Industries.

ONE FUTURE
Building a Sustainable
Tomorrow.

4

RAILWAY BUSINESS

At Renechip, we provide end-to-end engineering and digital solutions for safer, smarter, and future-ready railway systems.

WHAT WE ARE CAPABLE OF



Railway Layouts & Master Planning

Plant, track, yard & infrastructure planning



Carbody & Bogie Shops

Facility design, process engineering & manufacturing support



Assembly & Testing Facilities

Assembly shops, testing shops & static test lines



Dynamic Test Tracks

High-speed, durability & performance testing infrastructure.



Jigs, Fixtures & Tooling

Special-purpose tooling, gauges & fixtures.



Platforms & Access Systems

Maintenance platforms, walkways & service structures



Propulsion Line Setup

Assembly lines, subsystem integration & automation.



Engineering Documentation

GA drawings, BOM, layouts & as-built documentation



Methods & Engineering Support

Process planning, time studies & continuous improvement



TESTING SHOPS & TRACKS

Design & engineering of testing shops, inspection lines, and static/dynamic test facilities.

RAILWAY PLANT LAYOUT EXAMPLES



RAIL LAYOUT & YARD



CARBODY SHELL SHOP



BOGIE SHOP



ASSEMBLY SHOP



TESTING SHOP & STATIC TEST LINE



DYNAMIC TEST TRACK

SOLUTIONS & SERVICES



RETROFIT & SERVICES

- Plant modernization
- Equipment upgradation
- Condition assessment
- Maintenance management
- Life-cycle support



RAILWAY CONSULTANCY

- Factory layout & Plant design
- Line setup , Jigs & Fixtures
- Equipment selection & optimisation
- Greenfield & Brownfield support
- Product Design analysis for DFM
- Space utilisation / Optimisation
- Process improvement / Automation



LINE AUTOMATION

- PLC, HMI, SCADA solutions
- Robotics & vision systems
- Material handling automation
- Andon &OEE
- Digital Monitoring



LOOM TABLES & CABINETS

- Custom loom tables
- Electrical control cabinets
- PLC, MCC &VFD panels
- Pneumatic & hydraulic panels
- Testing & FAT support



MANUFACTURING

- Precision manufacturing
- Welding & fabrication
- Machining & assembly
- Quality assurance
- On-time delivery

SOFTWARE SOLUTIONS

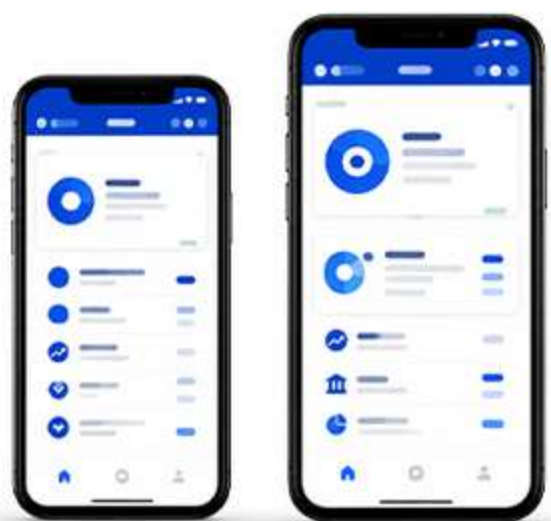
Smart Solutions. Scalable Technology. Real Impact.

Delivering Innovative Software Solutions that Drive Business Growth and Digital Transformation.



CUSTOM SOFTWARE DEVELOPMENT

End-to-end custom software development for web, mobile and enterprise applications. Scalable, secure and future-ready solutions tailored to your needs.



WEB & MOBILE APPLICATIONS

Responsive web applications and feature-rich mobile apps. Cross-platform development for seamless user experience.



ENTERPRISE SOLUTIONS

ERP, CRM, HRMS, Asset Management and other enterprise systems. Integrations, process automation and workflow optimization



CLOUD & DEVOPS SERVICES

Cloud migration, infrastructure setup and management. CI/CD, containerization, monitoring and DevOps automation



QUALITY ASSURANCE & TESTING

Functional, performance, security and automation testing. Ensure quality, reliability and superior user experience.



DATA & ANALYTICS SOLUTIONS

Data engineering, BI dashboards and advanced analytics. Turn data into insights for smarter business decisions.



INTEGRATION & API SERVICES

API development, system integration and third-party integrations. Seamless connectivity across platforms and technologies.



MAINTENANCE & SUPPORT

Application support, maintenance and performance optimization. 24/7 support to ensure smooth and uninterrupted operations.



BIM & DIGITAL CONSTRUCTION



BIM MODELING

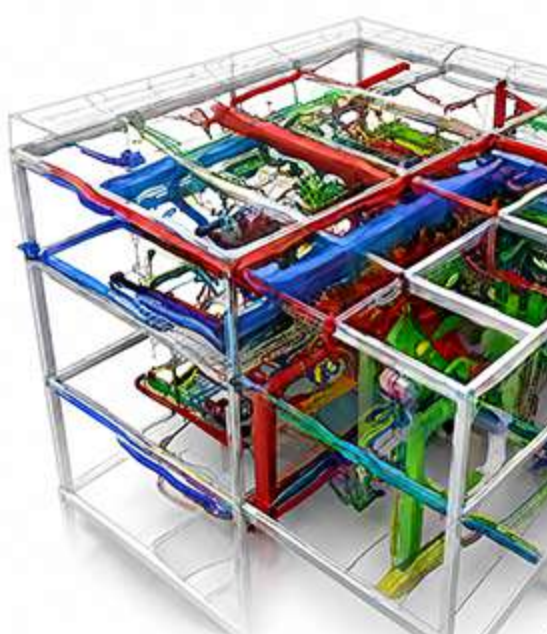
Accurate 3D models with intelligent data for better planning and decision making.





CLASH DETECTION & COORDINATION

Identify and resolve clashes early to reduce rework and save costs.





4D CONSTRUCTION PLANNING

Time-based simulation for optimized scheduling and project sequencing.





5D COST ESTIMATION

Accurate quantity takeoff and cost estimation.





6D FACILITY MANAGEMENT

Smart asset data for efficient operations and lifecycle management.





ACCURATE VISUALIZATION

Realistic 3D visualization for better understanding and stakeholder alignment.





COLLABORATION & COMMON DATA ENVIRONMENT

Centralized platform for seamless collaboration and information sharing.





DATA-DRIVEN DECISIONS

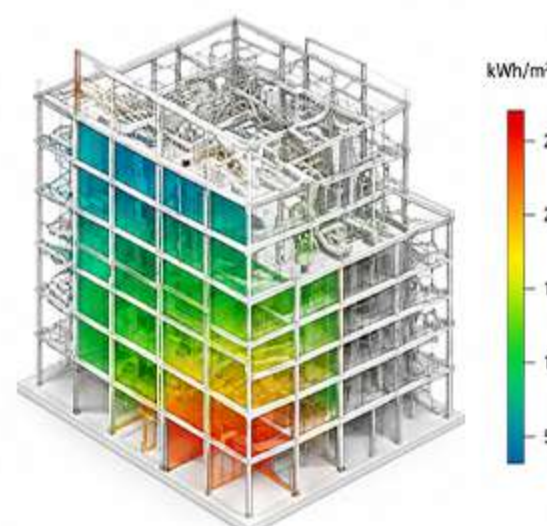
Reliable data and analytics for informed and faster decision making.





SUSTAINABILITY & GREEN BUILDING

Optimize resources for a greener future.





RISK REDUCTION & QUALITY ASSURANCE

Minimize risks and ensure quality through accurate planning and monitoring.



INDUSTRIAL AUTOMATION

Intelligent Systems. Seamless Integration.
Smarter Operations.



INTEGRATED CONTROL SYSTEMS



PLC, SCADA, HMI, RTU & DCS – Unified control, monitoring and supervision for smarter operations.

SENSORS & INSTRUMENTATION



Accurate sensing and instrumentation for real-time data and process reliability.

CONTROL PANELS



Customized panels for safe and efficient control.

MACHINE AUTOMATION



Automating machines for higher productivity and consistency.

PROCESS AUTOMATION



Optimize processes for efficiency, quality and cost savings.

INTERLOCKING



Ensure safety and reliability with smart interlocking systems.

VISION INSPECTION



Advanced vision systems for quality inspection and error proofing.

ROBOT INTEGRATION



Seamless robot integration for flexible and scalable automation.

LINE AUTOMATION



End-to-end automation for complete production lines.

SYSTEM INTEGRATION



Seamless integration of automation systems, machines, and software for connected and efficient operations.

IIOT / INDUSTRY 4.0 / 5.0 SOLUTIONS

Connect. Monitor. Analyze. Optimize. Elevate.

**CONNECTED
MACHINES &
DEVICES**



**ASSET
TRACKING &
MANAGEMENT**



**REAL-TIME
MONITORING &
DASHBOARDS**



**ALERTS &
NOTIFICATIONS**



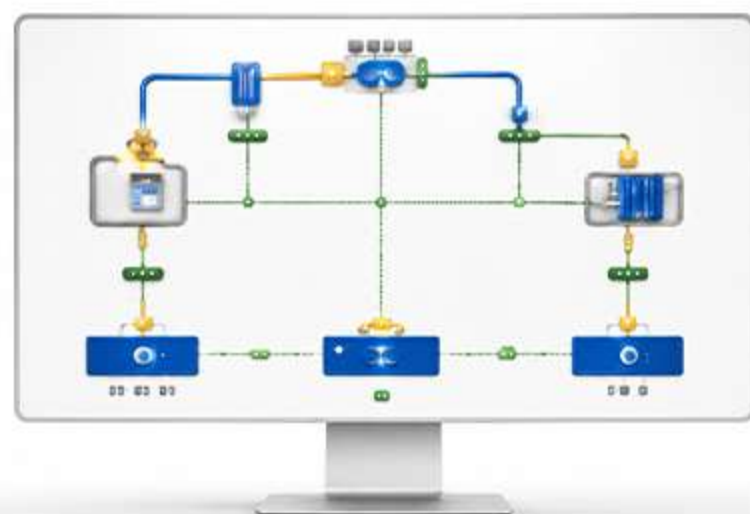
**PREDICTIVE
MAINTENANCE**



**CYBERSECURITY
& DATA
PROTECTION**



**DATA
ACQUISITION &
SCADA
INTEGRATION**



**ENERGY
MANAGEMENT**



**EDGE
COMPUTING
SOLUTIONS**



**PRODUCTION
INTELLIGENCE**





ENGINEERING SOLUTIONS

Digital excellence that designs, defines and delivers innovation

DESIGN & DIGITAL SOLUTIONS



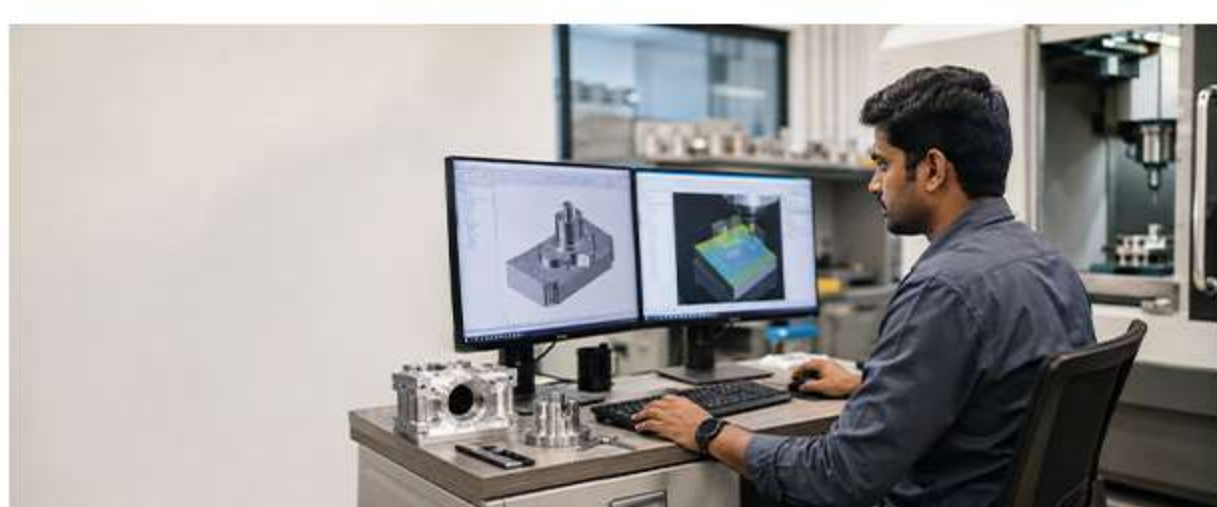
Mechanical Design



Reverse Engineering



Product Design



CAD / CAM Services



Supply Chain Engineering



Automated Inspection Systems



Production Tooling



Manufacturing Process Improvement



Design Automation

Smart, Reliable and Innovative Physical Solutions for Modern Industries

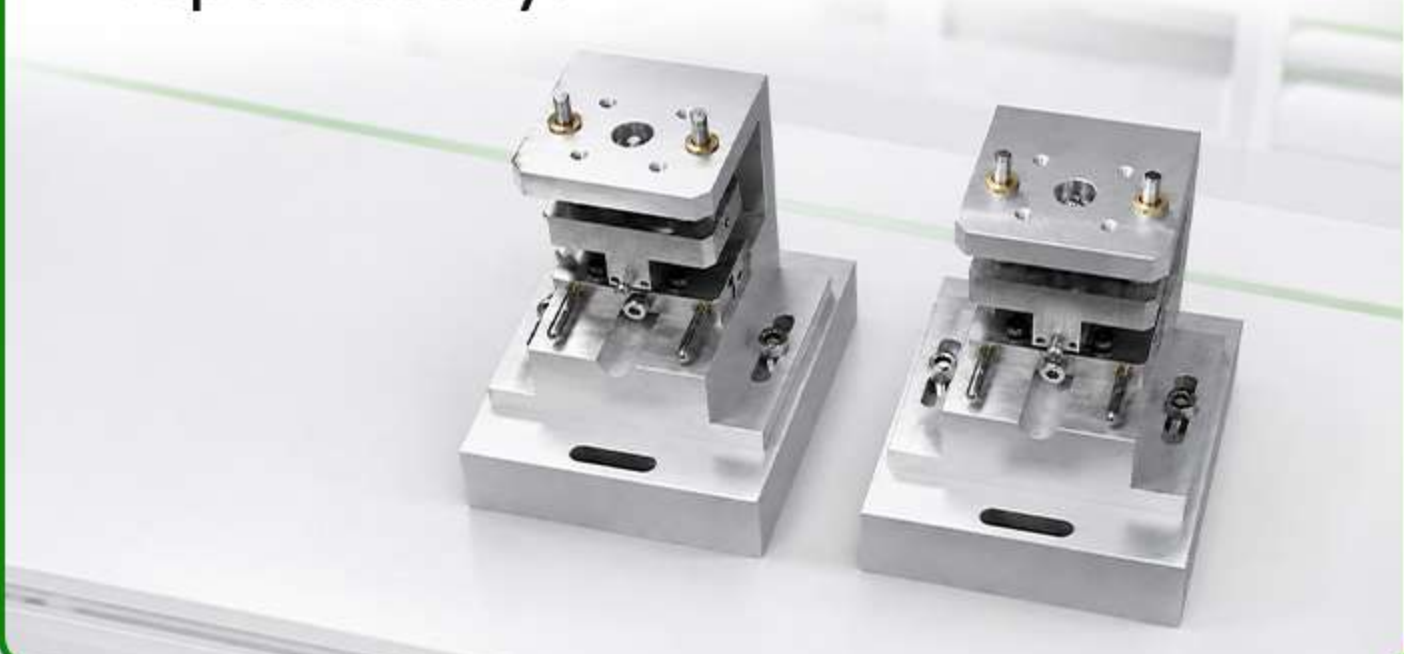
SPM

Special Purpose Machines for higher productivity and accuracy.



Jigs & Fixtures

Precision-engineered jigs & fixtures for consistent quality and repeatability.



Railway Testing Fixtures

Robust testing solutions ensuring safety, reliability and compliance.



Assembly Line Solutions

End-to-end assembly line solutions for seamless and efficient operations.



Material Handling Solutions

Intelligent material handling solutions for smooth flow and better efficiency.



Modular Fixture Systems

Modular, flexible and reconfigurable fixture systems for multiple applications.



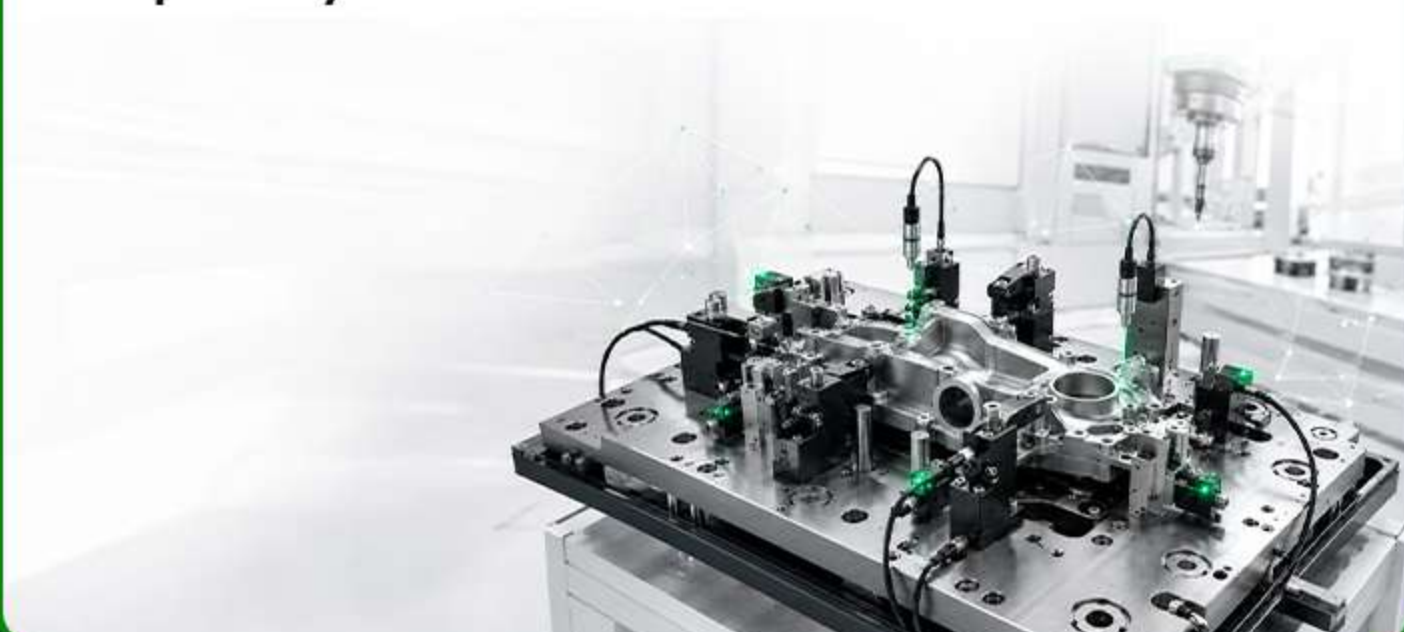
Machine Modification

Upgrading and modifying machines for improved performance and longevity.



Smart Jigs & Fixtures

Sensor-integrated smart jigs & fixtures for real-time data and quality assurance.



Smart Manufacturing Equipment

Advanced equipment integrated with smart technologies for the future of manufacturing.



Automated Inspection Systems

High-precision automated inspection systems for 100% quality verification.



Traceability & Data Management

Digital traceability solutions for real-time tracking, analytics and documentation.



Line Automation Solutions

Complete line automation solutions for maximum throughput and minimum manual intervention.



DIGITAL ENGINEERING & AUTOMATION SOLUTIONS

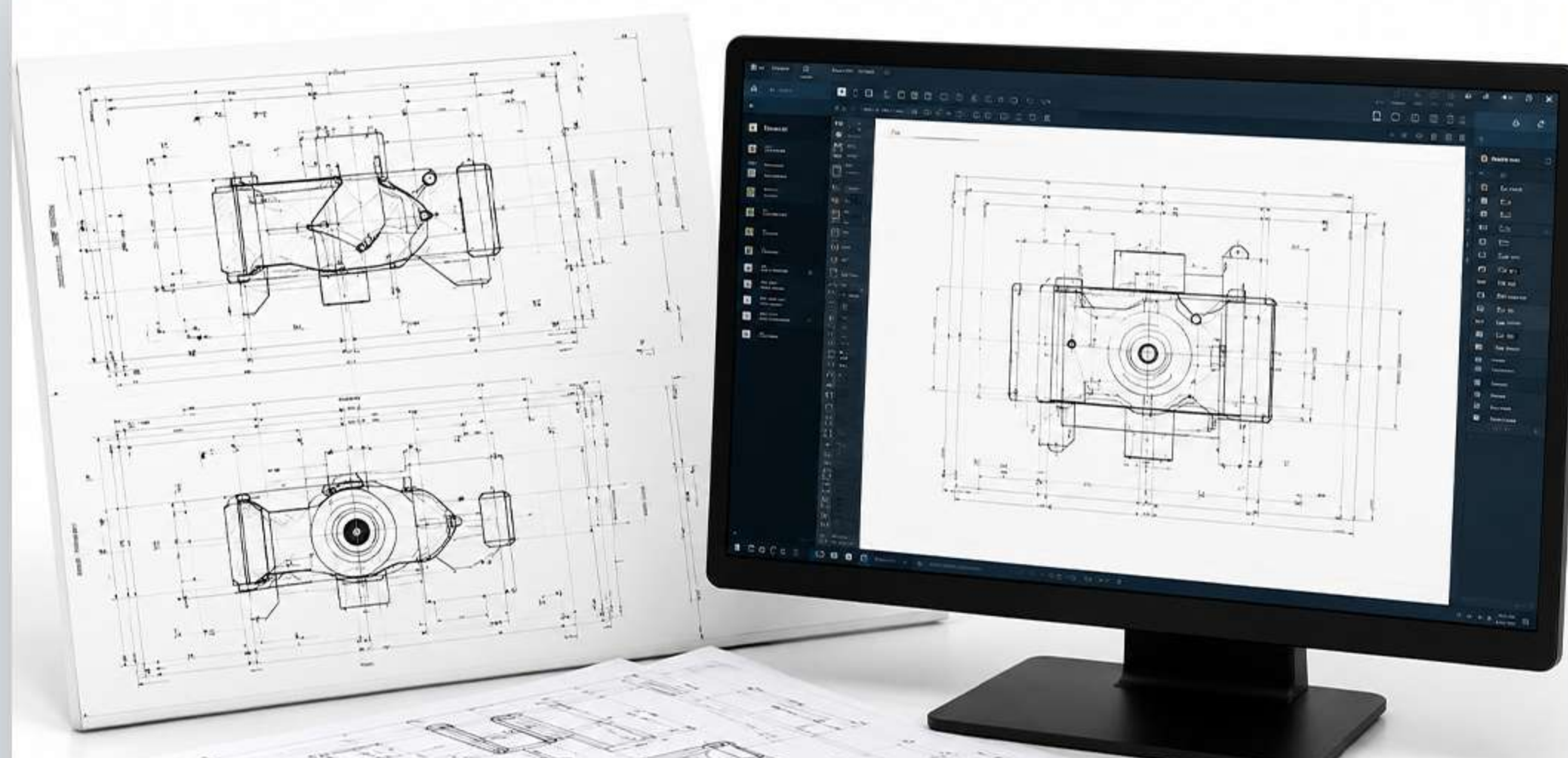
Digital engineering solutions that enhance accuracy, accelerate delivery, and boost productivity across the complete lifecycle—to-day and beyond.

DESIGN AUTOMATION



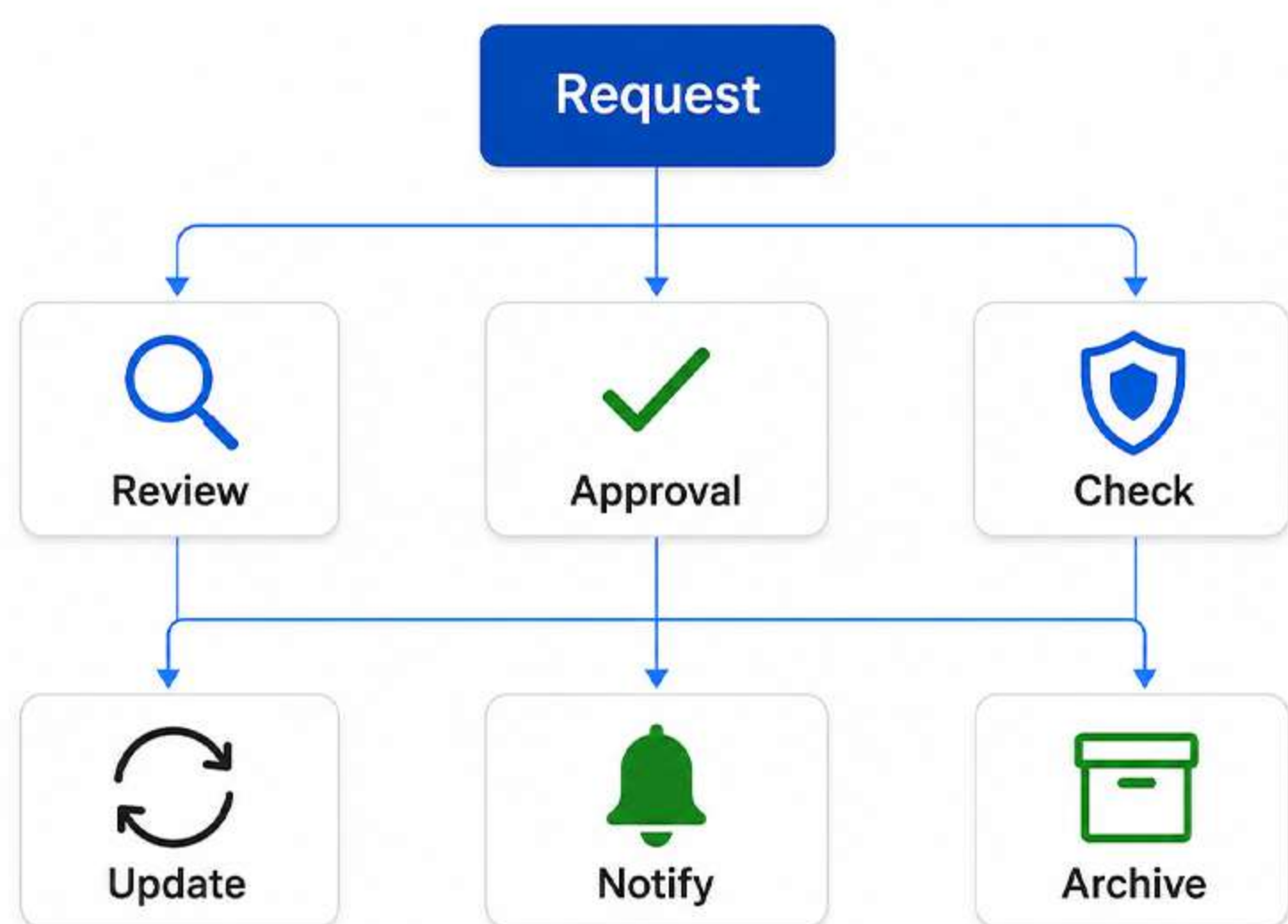
Automate engineering tasks and standardize design processes.

DRAWING AUTOMATION



Intelligent CAD automation for faster, error-free drawings and documentation.

WORKFLOW AUTOMATION



Streamline approvals, routing, and collaboration across teams.

DIGITAL ENGINEERING



Integrated digital solutions for better design, simulation, and decision-making.

DATA & PROCESS AUTOMATION



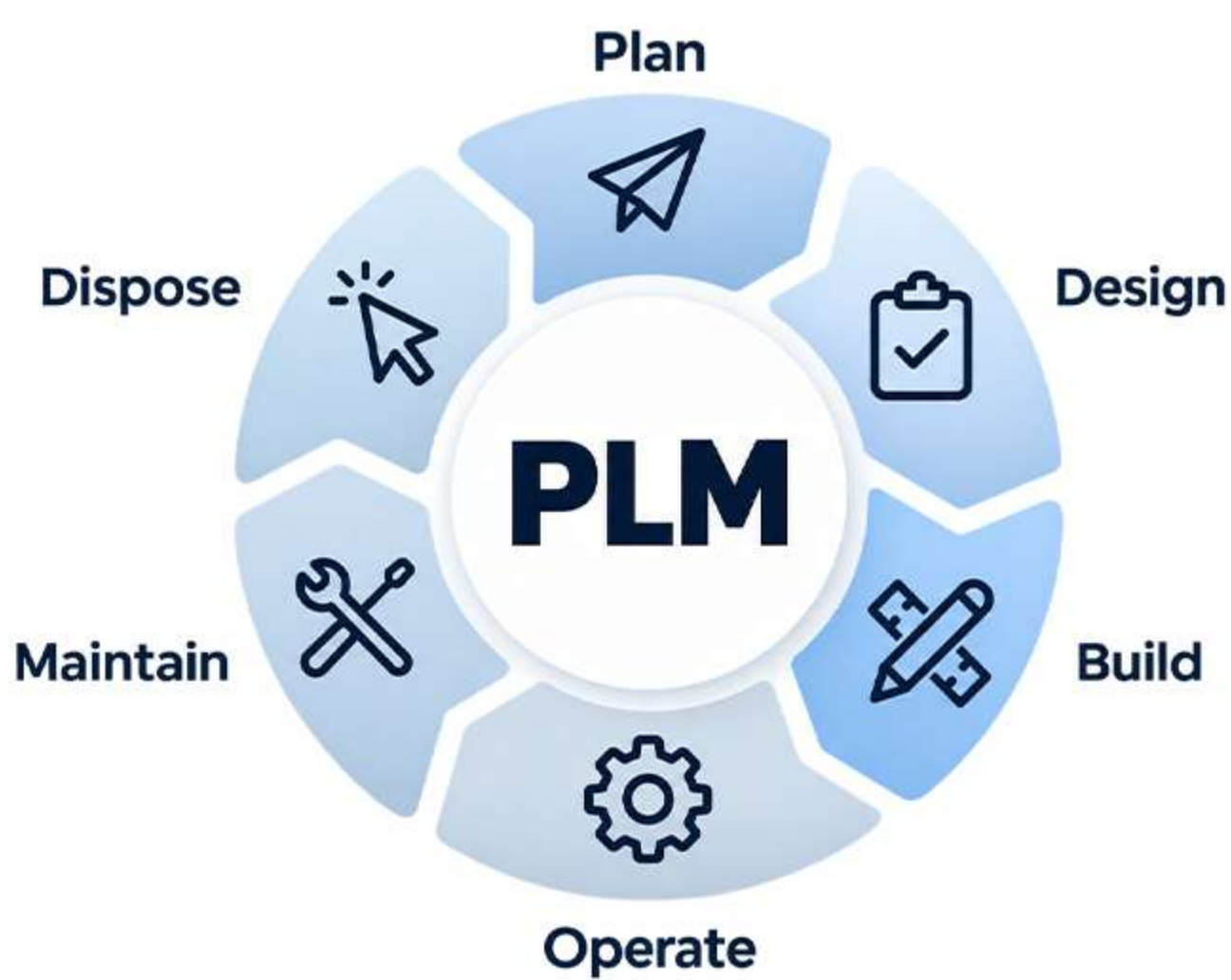
Automate data capture, validation, and processes for improved efficiency.

DOCUMENT & DATA MANAGEMENT



Secure, centralized management of documents, data, and revisions.

PLM & LIFECYCLE SUPPORT



End-to-end product lifecycle management for reliability and continuous improvement.

DIGITAL TWIN & SIMULATION



Digital twin, simulation & analytics for predictive insights and optimized performance.

SOLUTIONS IN ACTION

Real Challenges. Smart Solutions. Measurable Impact.

At Renechip, we partner with industries to solve complex engineering and operational challenges through innovation, automation, and digital transformation.

Sample Case Study

REBAR DRAWING AUTOMATION

Construction & Infrastructure



CLIENT

Leading EPC Consultancy (UAE)



BUSINESS CHALLENGE

- Manual rebar detailing was time-consuming and error-prone.
- High rework and coordination issues.
- Increased project costs and delays.



OUR APPROACH

- Developed automated rebar detailing templates using Dynamo & Revit APIs.
- Integrated validation rules and centralized parameter management.
- Standardized workflows and QA checks.



SOLUTION DELIVERED

- Automated rebar drawings and BOQ generation.
- Clash-free, accurate and standards-compliant deliverables.
- Reduced manual effort and turnaround time.

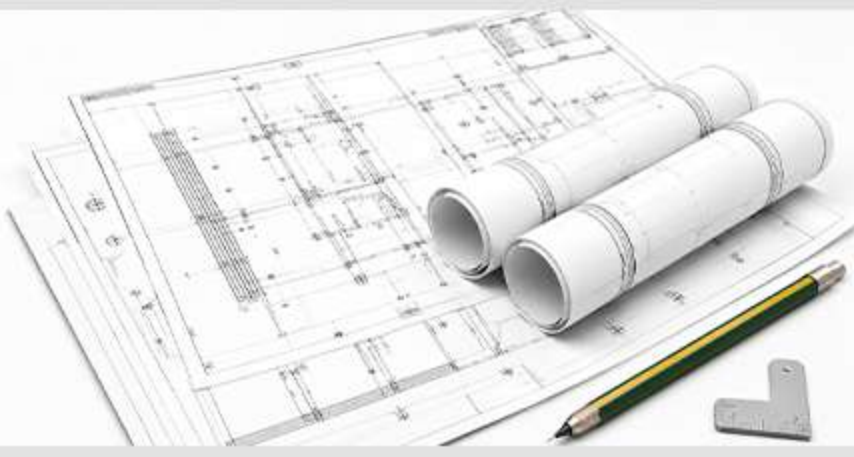


TECHNOLOGIES USED

- Autodesk Revit
- Autodesk Dynamo
- Autodesk BIM 360

SOLUTION WORKFLOW

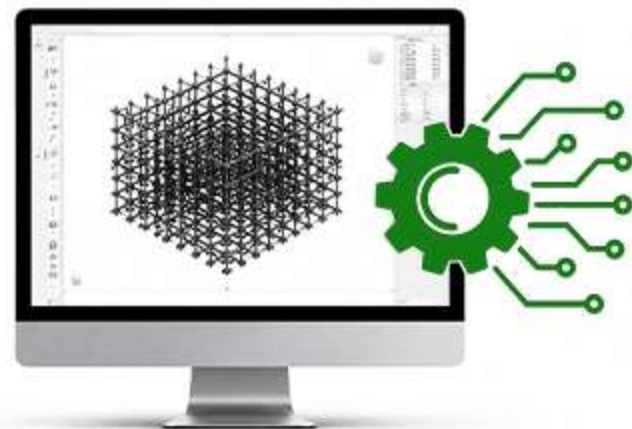
BEFORE Manual Process



Time-consuming, error-prone, limited scalability.



AUTOMATION ENGINE Renechip Automation Framework



Automated, validated, standardized.



AFTER Automated Deliverables



Accurate, consistent, scalable and faster delivery.

Case Studies

Explore
More Success

Stories

Scan the QR Code





STAFFING & PROFESSIONAL SERVICES

Right People. Right Skills. Right Solutions.

IT Staffing

- IT professionals for development, support, testing, infrastructure & more
- Short-term, long-term & project-based staffing

Design Staffing

- Expertise in CAD, 3D modeling, drafting & product design.
- Scalable talent for projects of any size and complexity.

Engineering Staffing

- Mechanical, Electrical, Civil, Instrumentation, Process & more.
- Onsite, offshore & hybrid engagement models.

Contract Staffing

- Short-term and long-term contracting for flexibility.
- Rapid mobilization of skilled resources.

Engineering Consulting

- Practical solutions for design, automation & process improvement.
- Optimized workflows, lower costs, and scalable long-term growth.

Railway Services

- End-to-end railway factory setup, maintenance, and support services.
- Retrofit & modernization for better performance.

Job Outsourcing

- Skilled workforce support for your operational needs.
- Efficient job outsourcing for improved productivity.

Flexible Engagement

- Onsite, offshore, hybrid & project-based models.
- Flexible support for every project.

Our Results

Right Talent



Faster Deployment



Cost Efficiency



Quality & Reliability



Long-Term Partnership



WHY RENECHIP?

We combine engineering excellence, digital innovation, and a customer-first approach to deliver intelligent solutions that drive measurable impact.

- Engineering Excellence
- Digital Innovation
- Customer-Centric Approach
- Sustainable Impact
- Trust & Integrity

Our Trusted Clients



LEADERSHIP TEAM



Dr. P. Ravindran
Founder, Managing Director
22+ Years of Experience
Mechanical Design, Operations, Business Optimization, Process Leadership



Rajendran A
Co-Founder, Executive Director
25+ Years of Experience
Expert in process & manufacturing engineering, tender, project management, and operations management. Specialized in Railway and Automotive, Metro & Vande Bharat project's.



Ilaiya Raja S
Co-Founder / Director – Digital
13+ Years of Experience
Digital transformation leader specializing in business strategy, process automation, and delivering scalable digital solutions.

Locations: Chennai, Tamil Nadu, India
Global Presence

Let's Talk

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