

Driving Product Excellence Through Advanced **Virtual Engineering and Simulation**

Engineering organizations are increasingly adopting Model-Based Engineering to reduce physical prototypes, improve product quality, and accelerate design validation. MOURI Tech delivers advanced simulation and engineering analysis across structural, thermal, CFD, durability, vibration, and multi-physics domains, enabling organizations to validate product performance earlier in the development lifecycle and make confident engineering decisions before manufacturing begins.

Business Challenge

- High Costs Associated with Prototypes and Physical Testing.
- Long Development Cycles Across Multiple Validation Gates.
- Limited Design Iterations Due to Cost and Time Constraints.
- Late Issue Discovery Due to Limited Early-Stage Prototype Availability.
- Data Collection and Repeatability Challenges.
- Safety and Compliance Risks Associated with Failure Testing.
- Limited Visibility into Root Causes

Our Solution

- Model-Based Engineering to Reduce Physical Testing.
- Simulation Automation to Minimize Manual Effort.
- AI-Driven Simulations to Accelerate Results at 1000X.
- Digital Twin-Driven Data Capture & Intelligent Monitoring.
- 1D Systems Simulation for Faster Early-Stage Analysis.
- Extreme-Condition Simulations Without Physical Safety Hazards



Business Outcomes

- Reduced Physical Prototype Costs Through Virtual Simulation & Testing.
- Accelerated Design Validation Through Early Performance Assessment & Issue Detection.
- Enhanced Product Optimization for Improved Performance, Weight, Durability & Efficiency.
- Improved Product Reliability & Quality Through Predictive Analysis & Failure Prevention.
- Faster, Data-Driven Decision-Making Through Simulation Insights & Digital Validation.
- Reduced Time-to-Market Through Shorter Design Iterations & Development Cycles

CMMI DEV/5 | ISO 27001:2022 Certified | ISO 9001:2015 Certified | ISO 42001:2023 AI Management System
AICPA - SOC Certified | HIPAA Compliant | PCI DSS Certified | GDPR Compliant | TISAX

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