From structured design to agile execution

Combine SystemWeaver and RemotiveLabs to achieve a complete, traceable toolchain from requirements to test results.

This powerful integration bridges the gap between systems engineering and virtualized testing, accelerating development with real-time feedback, early validation, and continuous alignment between system design and implementation.

For SystemWeaver users

SystemWeaver®

Why add RemotiveLabs?

- Bring requirements to life faster with virtual testing
- Prototype early and reduce dependency on hardware rigs
- Test new implementations in cloud-based environments
- Automate verification and visualize test results
- Close the feedback loop - send results back into SystemWeaver for traceability
- Ensure alignment between code and system-level requirements

For RemotiveLabs users

remotiveLabs

Why add SystemWeaver?

- Bridge the gap between iterative software testing and systems engineering
- Connect development and testing activities to requirements with full traceability
- Generate executable platforms from system-level architecture
- Foster true collaboration across cross-functional teams
- Ensure everything you test aligns with requirements and safety standards
- Automate the mapping between requirements and test coverage

Common workflow with continuous collaboration

Maximize traceability, accelerate verification, & enable continuous collaboration across the system & software lifecycle.

Requirements engineering: Capture legal and technical requirements with full system traceability.

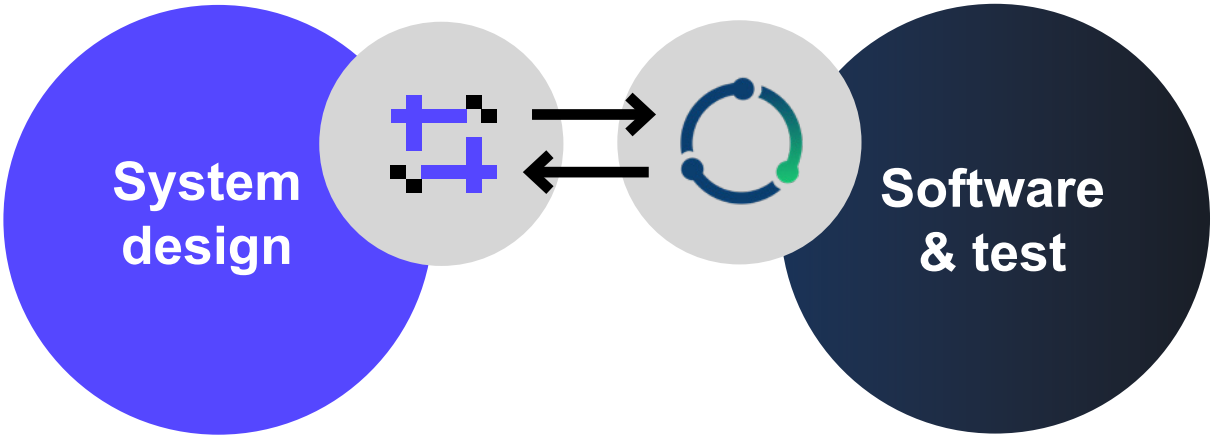
System design & topology: Define ECUs, assign to CAN/Ethernet clusters, and generate system signals. RemotiveLabs captures complete vehicle topology.

ECU/software design: Model software components, interfaces, and data types in an AUTOSAR-compatible structure with version control. Maintain traceability and test coverage.

Shift-left test integration: Build early test models in SystemWeaver, run them in RemotiveLabs using real vehicle topology, and feed results back via API for traceable coverage linked to components and requirements.

Update and iterate: Continuously refine requirements, system and software design, and re-run tests in updated topologies to ensure integrated functionality.

Two powerful tools in one seamless workflow



Accelerate your development cycle with a closed feedback loop:
SystemWeaver defines what the ECU should do,
while RemotiveLabs checks if it actually does it,
supporting multiple levels of virtualization including hardware.

	SystemWeaver®	remotiveLabs
Core	**Software product lifecycle management**	**Virtual development, testing & integration**
Purpose	Centralize product data, architectures, and ensure compliance	Accelerate prototyping and iterative testing without hardware
Key Features	• Requirement & architecture management • Real-time collaboration • Custom workflows & metamodeling • Toolchain integration (Jira, EA, test tools, etc) • Compliance: ISO 26262, ISO 21434, ASPICE. AUTOSAR support	• Virtual ECU orchestration • Cloud-based simulation • environments • CI-integrated feedback loops • Signal injection & data visualization • Developer-first UX (CLI + UI)
Strengths	Structured traceability, lifecycle governance, industry compliance	Agile iteration, early test execution, fast feedback, seamless developer experience

Learn more

Fully traceable vehicle software development

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