

# Independent Verification & Validation (IV&V)

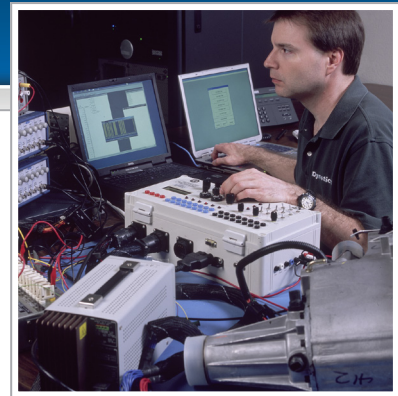
The ever-increasing complexity of Automotive Module Software is exposing manufacturers and suppliers to greater warranty and liability costs. Dynetics can reduce those costs through our Independent Verification & Validation (IV&V) program. Utilizing a highly motivated team of engineers with extensive experience in software engineering, quality assurance models, automotive test equipment, communications test tools, and vehicle module software development, Dynetics has established itself with OEM and Tier 1 suppliers alike as a trusted source for IV&V services. Dynetics offers a unique approach that utilizes our IV&V test tool to partially automate the process. Our IV&V test tool automates communications interfaces, provides operator instructions, captures electronic records, and provides test reports. The test engineer utilizes industry-standard equipment and specially-built interface boxes to simulate electrical interfaces and measure outputs. The process allows repeat testing for new software releases to be performed significantly faster and at a lower cost.

## Automotive IV&V Experience

- ✦ Powertrain Controllers
- ✦ Body Controllers
- ✦ Clusters
- ✦ Vehicle Communications
- ✦ Totally Integrated Power Module

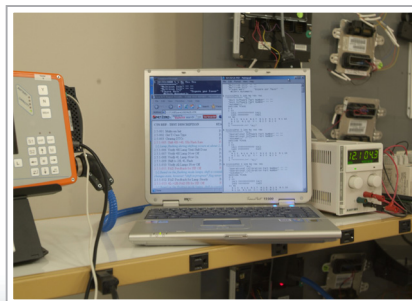
## Typical Project Activities

- ✦ Detailed Requirement Review
- ✦ Test Script Development
- ✦ Verification of Software and System Functionality by Exercising System-Level Requirements
- ✦ Test Reports from Test Results Database
- ✦ Raw Data (Debug) Reports from Test Tool
- ✦ Test Sequence Files
- ✦ Test Notes Recorded by Test Engineer(s)
- ✦ Summary Documentation



## Dynetics IV&V Services help manufacturers:

- ✦ Meet Quality System Requirements
- ✦ Reduce Warranty Costs
- ✦ Minimize Liability
- ✦ Increase Customer Satisfaction
- ✦ Ensure Compliance to Functional Requirements and Industry Standards



For More Information Contact:

## Dynetics Vehicle Information Technologies

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