

About MPI

Managed Programs (MPI) is a full service engineering firm focused primarily on the development and manufacturing of various automotive components and systems. Founded in 1997, MPI has established engineering offices in Rochester Hills, Michigan and Seoul, Korea.

Managed Programs serves the Global automotive OEM, Aftermarket, and Motorsports community with the most experienced and highly-specialized engineering and manufacturing services by integrating an exceptionally qualified technical staff, advanced technologies, analytical tools, and highly refined processes.

The key to MPI's development process is effective program management and focus on project objectives from start to finish. MPI's system initiates each project by identifying our customer's requirements and tailors a detailed program plan specifically with tasks and milestones to guarantee desired results. We describe our process as "Design for Profitability".

Within this process MPI uses the latest methods for design for manufacturing, assembly, and quality to exploit the impact of design on product cost. MPI's system utilizes the full scope of product requirements merged with realistic manufacturing capabilities to insure product quality and profitability of our customers.

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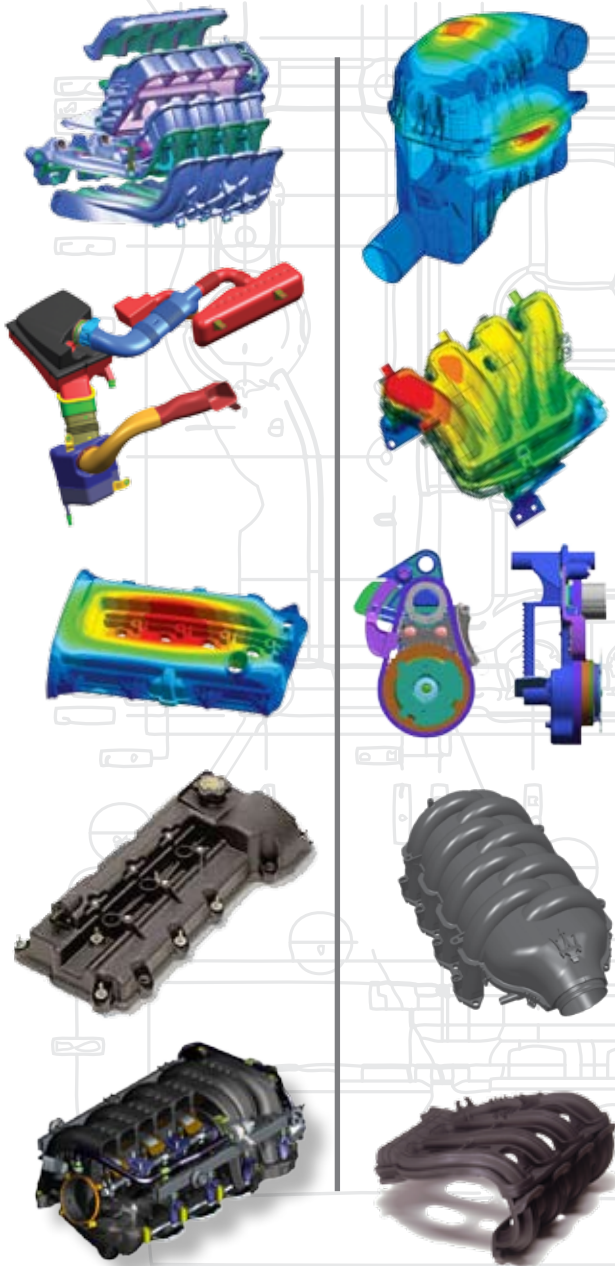
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Highly Engineered Parts and Systems



Program Management

- MPI follows a highly refined and structured PM process to insure all project goals are met. Our process begins with a clear program plan definition with our customer and only ends when the goals are met.



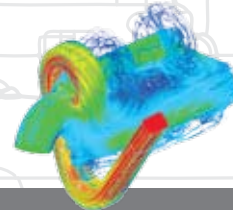
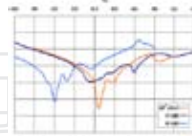
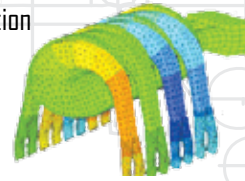
Product Design and Manufacturing Engineering

- The key to our design process is a focus on reducing manufacturing complexity and maximizing customer profitability.
- DFM, DFA, DFMEA, PFMEA
- CAD—CATIA, Pro-E, UG, IDEAS
- Weight reduction, component integration, metal to plastic conversion, problem resolution
- Turn Key Systems (Concept Design through Launch)
- Design for Manufacturing /Assembly
- Cell Layout/Process Optimizatation
- Equipment Specification



Computer Aided Engineering

- Fluid Flow Optimization (Fluent)
- Finite Element Modeling and Stress Analysis (Abaqus)
- Acoustical Optimization (Sysnoise)
- Engine Simulation (GT-Power)



Prototype & Production Tooling/Parts

- Rapid Prototype
 - SLS/SLA
 - Cast Urethane
 - NylonMold™
- Traditional Injection Mold Tooling
- System Assembly
- Injection Molding
- Linear Vibration Welding



Testing/Part Validation

- Test Plan Development and Execution
- Air flow, Vibration, Chemical Exposure, Humidity, NVH
- System analysis and problem resolution



Low Volume Production

- Aftermarket Performance, Service Replacement, Marine, Specialty Vehicles
- Low Volume Parts at High Volume Cost

