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Research Theme

Aerospace and Transportation Materials and Manufacturing (ATMM)

Research Areas

- Electromagnetic valve trains
- Smart fuel injectors
- Position self sensing of piezoelectric and electromagnetic actuators
- Application of viscoelastic materials for impact protection of airplane cargo floors and military personnel carriers

Research Facilities/Tools

- dSpace rapid prototyping environments for hardware in the loop control system design.
- Experimental test benches including a high speed x-y table, fuel injectors simulators, and gas exchange valve simulators.
- Many high precision sensors, including a laser vibrometer, inductive and capacitive displacement sensors, and piezoelectric accelerometers and force gauges.
- Measurement equipment including oscilloscopes, impedance meters, active programmable filters, etc.

