



Systems Simulation and Control Research Laboratory

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Capabilities

- ✓ Hybrid Electric Vehicle Simulation and Control
- ✓ Hybrid Electric Vehicle Component Sizing
- ✓ Development of Driving Cycles
- ✓ Vehicle Active Suspension Simulation and Control
- ✓ Simultaneous Simulation of Vehicle Powertrain and Suspension Systems
- ✓ Application of soft computing (Fuzzy Logic and Genetic Algorithm) for systems controller design
- ✓ Pneumatic Control Systems Design
- ✓ Simulation and control of GT Performance

Equipment

- ✓ Automatic Vehicle Location (AVL)
- ✓ GPS
- ✓ Pneumatic and Electro-Pneumatic Control Valves, Sensors and Actuators
- ✓ PLC (Programmable Logic Controller)
- ✓ Vehicle Performance Simulation software
- ✓ Vehicle Suspension Simulation software
- ✓ Hydraulic setup (on order)

