Vehicle Automation

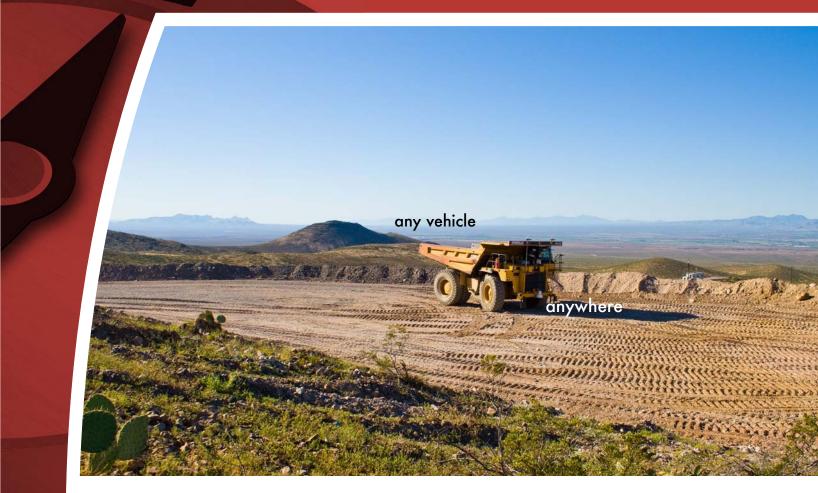any vehicle

anywhere

Autonomous Solutions, Inc. is a world leader in the automation of ground vehicles for military, industrial, and automotive proving ground applications. Our standardized hardware and software enable cost efficient solutions designed and tested for years of reliable operation.

Experience Matters

ASI has automated more than 50 different OEM vehicle platforms:

- Heavy (100+ ton) industrial vehicles
- Tractors, backhoes, and excavators
- Off-road utility vehicles
- Consumer trucks, SUVs, and cars
- Tracked and wheeled vehicles

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ASI
AUTONOMOUS SOLUTIONS INC

Automation Approach

ASI uses a suite of hardware, electronics, and software components to equip vehicles for complete automation. Our specialized control unit can interface with the CAN bus on modern vehicles to monitor vehicle systems, and in some cases control vehicles using OEM hardware. For other vehicles, our hydraulic or mechanical actuator kits can be installed to control vehicle functions. GPS and communications are mounted in a single assembly to the roof of the vehicle.

All our systems use proven hardware and software components backed by extensive experience automating vehicles for use in real-world solutions.
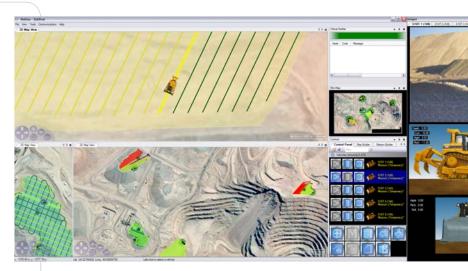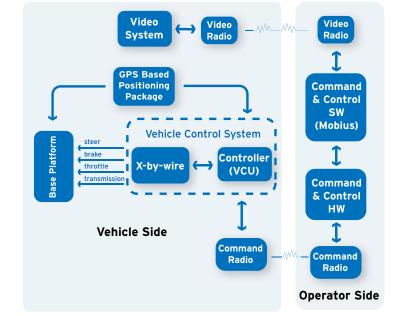
Automation Features

Whether you choose to drive the robot remotely or have the vehicle drive itself, the unmanned system can be controlled by ASI's Mobius™ software. This control package provides the following features to guide your test vehicle:

- Map Builder
- Path Builder
- Path Trainer
- Tele-operation
- Waypoint Following
- Area Coverage
- Perimeter Patrol

Optional features include the following:

- Obstacle Detection
- Multi-Vehicle Coordination

Vehicle Side

- Video System ↔ Video Radio
- GPS Based Positioning Package
- Base Platform
  - steer
  - brake
  - throttle
  - transmission
- Vehicle Control System
  - X-by-wire ↔ Controller (VCU)
- Command Radio

Operator Side

- Video Radio
- Command & Control SW (Mobius)
- Command & Control HW
- Command Radio

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