

# VEHICLE INTEGRATIONS

## For Autonomous Vehicle Applications

Dataspeed engineers and consultants are highly skilled in the rapidly evolving autonomous vehicle industry. We assist teams in creating strategic plans for developing automated vehicles. Whether just entering the field of autonomy to experienced technology professionals looking to expand a fleet, Dataspeed's high-quality vehicle integrations are sure to accelerate your project.



## Integration Capabilities

### For Essential Data & Control

- Lidar
- Radar
- Camera
- Computer
- Instrumentation Mounting
- GPS/GNSS/IMU Navigation
- Sealed Cable Entry
- Communication and Networking
- Data Display and Visualization
- Power Solutions
- Software Solutions

## Instrumentation Storage

Trunk 80/20 mounting racks are perfect for organizing computers, power distribution systems, and other critical hardware. These racks offer easy access with removable panels. For added efficiency, these panels can be equipped with optional fan-powered cooling systems to keep everything running smoothly

## Cable Management

Partner with Dataspeed to design custom cables for your unique sensor suite. Not only do our engineering capabilities encompass design, but the fabrication and installation as well.



# AUTONOMOUS SOFTWARE SOLUTIONS

Dataspeed offers autonomous software development packages to simplify AV projects. Utilizing the requested or recommended suite of sensors and computing hardware, our team has the expertise to develop highly engineered software to achieve the required autonomous functionality.



## NavRoute

Path following system designed for easy control of processing pipeline and trajectory programming

## Object Detection & Avoidance

Inputs data from lidar sensors to detect objects in the vicinity of a vehicle in real time, and acts upon the object detections to slow down or stop for obstructions in the vehicle's path

## Sensor Calibration Tool

Aids user in setting up the extrinsics calibration of a suite of sensors on a vehicle

## Lidar Sensors

Easily install compatible Lidar with Dataspeed's roof rack clamps. Mount it on the pre-drilled bracket, add the optional shroud, and attach it to any ferrous metal surface

## Roof Racks

Custom bumper bars & roof racks are available for quick sensor mounting. Bars can be modified to smoothly wrap around the vehicle & can be

## Customization

Looking for a showroom-style vehicle? Our engineers are happy to discuss seamless integration options that include 3D CAD modeling & fabrication.

## Accelerate Autonomy with Dataspeed

Dataspeed is the leader in autonomous vehicle development, providing autonomy-ready vehicle platforms and Drive-by-Wire systems for on-road and off-road applications across defense, automotive, industrial, and academic research. Trusted in demanding environments, Dataspeed helps teams move faster, reduce integration risk, and bring autonomy to life while helping define the standard for scalable autonomy.

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