

HEXAGON



## AutonomouStuff solutions

Enabling the future of autonomy

AutonomouStuff, a Hexagon company, is the global leader in supplying components, engineering services, software, R&D platforms and data intelligence to help enable autonomy. By researching and implementing the latest product technologies, we help customers remain at the forefront of the robotics and autonomy markets.

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**We serve customers in industries including:**

- Aerospace
- Automotive
- Military
- Railroad
- Startups
- Agriculture
- Maritime
- Mining
- Robotics
- Universities

AutonomouStuff's goal is to enable the future of transportation by significantly reducing development time of autonomy, driving our customers forward.

# AutonomouStuff Products

The AutonomouStuff team researches and offers the **latest product technologies** to help our customers remain at the forefront of the industry.

## Products you can find at AutonomouStuff include:

- |   |  |
|---|--|
|  3D                      |  Interface tools    |
|  Actuation               |  LiDAR              |
|  Autonomy kits           |  Platforms          |
|  Autonomy pilot programs |  Power distribution |
|  By-wire controls        |  Radar              |
|  Computing               |  Software           |
|  Data acquisition       |  Tele-op           |
|  Data storage          |  Ultrasonic       |
|  Enclosure             |  Vision           |
|  GPS-IMU FOG           |  Wireless         |







# AutonomouStuff Services

Our team can integrate products onto a variety of vehicle platforms spanning across many industries.



## Integration services

Our application engineering experts are the world's best at integrating hardware and software into vehicles used for automated driving research and other applications. Our integration experience spans a variety of industries both on and off customer sites.



## Engineering services

Software applications, from AI-based object classification to fully driverless car technology, help you take your project to the next level. We can help you develop the applications you need to run autonomous vehicles and devices.



## Consulting

Whether you seek an expert workshop, technical industry analysis reports or other expert consulting, our staff brings decades of experience to the table from across a variety of different industries.



## Value-added services

Our talented staff delivers a variety of hands-on training options for our software and technology. We have the ability to fully customize all the software we offer to ensure your specific needs are met.

# AutonomouStuff Software

We provide on-call engineering services to design and install, build software and provide solutions when our customers need it. Our software development program, which has its roots in the DARPA challenges, is based on:

- Decades of robotics experiences
- Unique industry knowledge and perspective
- Understanding of artificial intelligence
- Expertise in control algorithms and perception sensing
- Extensive knowledge of middleware (ROS) for self-driving applications
- State-of-the-art programming methods, processes and quality control
- Bringing together our global partner ecosystem



## Highway automation

Control of speed, distance and positioning at highway speeds



## LiDAR Object Processing

Segmentation and object tracking with 3D point cloud LiDAR data



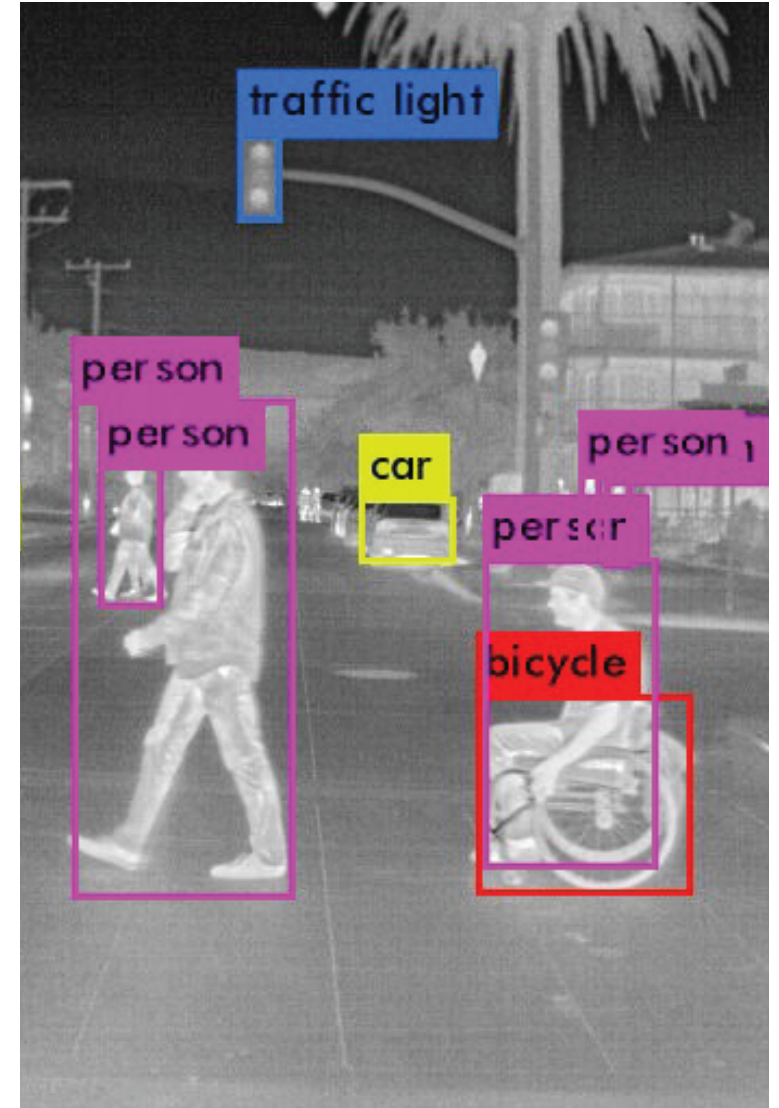
## Shuttle automation

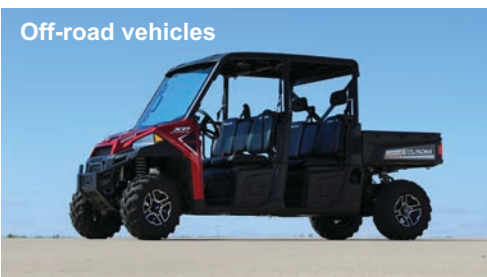
Advanced control for autonomous shuttle operation



## Speed & steering control

Programmable emulation of typical driving behavior





# AutonomouStuff Platforms

Starting with a customizable R&D platform can accelerate your work on advanced driver assistance systems (ADAS), advanced algorithm development and automated driving initiatives—or help take your driverless efforts to the next level. Our expert engineers have developed platforms preconfigured with sensors and software based on customer needs. Or, if you prefer, create your own with our Platform Selector Guide at [autonomoustuff.com/platform/platform-selector](https://autonomoustuff.com/platform/platform-selector). Either way, we'll help you pull together everything you need to get started on day one.



## Automotive

Automobile platforms chosen for integration potential and designed for safety and reliability



## Class 8

A readily configurable and scalable class 8 solution, ready to customize



## NEV

Polaris GEM options (including e2, e4, e6 and eL XD) for a scalable and customizable fully electric platform



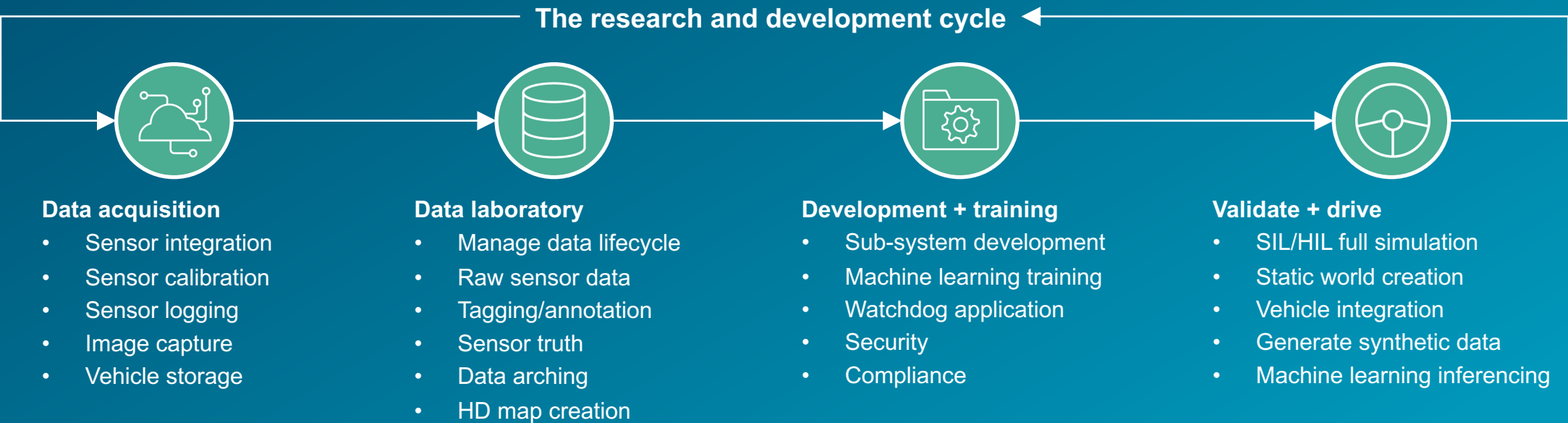
## Off-road vehicles

Completely customizable platform of choice for off-road applications



# AutonomouStuff Data Intelligence

AutonomouStuff Data Intelligence solutions address **common scenarios for ingesting, storing and archiving vast amounts of data** and **storage, annotation, machine learning model training and simulation**. Data Intelligence is also centered around development of the software stack that controls the highly automated vehicle and the tools needed to enable the development of the stack. Tools consist of storage, annotation, machine learning model training and simulation. With 10 years of in-house experience in autonomy and advanced driver-assistance systems, plus support from our expert partners, we can help you get up and running quickly.





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