



## CASE STUDY

# Actalent's Systems and Software Engineering Expertise Helps Meet Autonomous Vehicle and Truck Demands



## Expert in vehicle manufacturing increases efficiency of automation program through strategic systems development, rigorous testing, and project management

### Client Profile

Our client is one of the world's largest commercial vehicle and truck manufacturers.

### The Challenge

Our client initiated an autonomous vehicle and truck product validation program that included build, maintenance, and repair support. Because of the size and complexity of this project and its' usage of artificial intelligence software capabilities, success was reliant on finding the right engineering services provider to contribute a dedicated onsite services team and a leader to manage their performance – something that proved difficult given the shortage of firms with proven experience in this space. In order to stay relevant in the market, the client needed an experienced engineering services firm to help them meet rising market demands and move their projects through the product development life cycle.

### The Actalent Approach

This client chose to work with Actalent because of our success in assembling high-quality engineering teams made up of dedicated STEM professionals and our commitment to providing exceptional engineering services.

To address this client's needs, Actalent put together a highly qualified team of software and systems engineers, experienced technicians, project managers, quality control engineers, and procurement specialists.

A program lead and program manager were also assigned to the project to oversee daily operations, manage team performance, streamline onboarding and offboarding, ensure consultants achieved mutually agreed upon milestones, and manage the entire project from start to finish. Additionally, the program lead and program manager were strategically placed to act as reliable points of contact and support to consultants and client managers. They ensured all consultants had the necessary tools to complete their tasks, were assigned to the right work orders based on the project schedule, and understood the cross-functional alignment required to meet client expectations.

Our team of qualified professionals and expertise in engineering services was able to help the client build and maintain software for their autonomous trucks while keeping pace with regulatory guidelines and expectations, such as those held by the Validation Autonomous Group.

We minimized vehicle downtime by testing for quality using expertise of vehicle software logging tools, communication networks, and mechatronics systems. Technicians aided vehicle build activities, verified the operations of electrical and mechanical systems, and helped trouble-shoot and resolve any issues while maintaining documentation of the issues and how they were addressed. They also helped to create and modify wiring harnesses and performed testing as needed. Additionally, our experts were able to identify, order, and manage the inventory of any necessary equipment and tools needed to complete the project.

## The Results

With the ongoing support of our engineering services, this client is able to continue moving this project through milestones in a timely and budget-conscious manner. By keeping pace with the client's autonomous project schedule, Actalent is helping to ensure that the client maintains its' position to meet not only industry demands and expectations, but also consumer demands.

Because our program lead and program manager are tasked with overseeing and maintaining daily operations for this project, client managers are able to focus their energy, time, and resources on new projects, programs, initiatives, and general business development. The Actalent managers provide consistent administrative support, engineering expertise, project schedule tracking, continuous project improvement, quality deliverables, and communication to our on-site consultants. This all culminates into a positive and engaging work environment that increases employee retention, satisfaction, and overall work performance.

## The Actalent Engineering Team

- + Program Manager
- + Program Lead for Project and Quality Management
- + Systems & Software Engineers
- + Mechanical Technicians
- + Electrical Technicians
- + Power Systems Technicians
- + Procurement Specialists
- + Engineering Documentation Specialists



Actalent



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