



Mobile Systems Integration

See how Cross Company is helping our customers respond to the COVID-19 pandemic

Cross helps Anderson UnderBridge improve functionality, safety, and efficiency of their equipment



[Anderson UnderBridge](#), located in York, SC, is an Original Equipment Manufacturer (OEM) of equipment used to access the underside of bridges for inspection, repair, and construction. They have partnered with Cross Mobile System Integration on hydraulic and control projects for nearly 15 years. In that time, their control system did not change dramatically. However, when new ANSI A92 standards required that the platform have loadsensing technology, Anderson UnderBridge used it as an opportunity to redesign and improve the entire machine.

Loadsensing Technology

The primary challenge for the design team was to find a way to accurately measure the weight on the platform without making any major structural changes to the already developed equipment. For this project, Cross brought in the engineering team from [J.A. King](#), another division of Cross Company. "Our engineering team works every day to create custom solutions for complex measurement challenges, so this project was a perfect fit," said Kevin Hatch, Director of Engineering at J.A. King.



The project required that they measure the distributed weight of the platform to monitor for and prevent an overload which would pose a safety risk. Kevin and his team developed a straightforward yet elegant solution to sense the load. "We went through other solutions before, but the idea that Kevin came up with was simpler, lower cost and more accurate," said Ben Smith, Director of Engineering at Anderson UnderBridge.

Aside from being simple and low cost, this loadsensing solution design is one that could easily be retrofitted into older units if a customer desired to add this safety feature.

[Continue reading the story](#) to learn how Cross helped make improvements to Anderson's hydraulic and control systems or reach out to one of our experts to discuss how we can help with your application.

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