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Greetings!

In manufacturing, dramatic advances in technologies can mean substantial gains in efficiency, accuracy and overall quality. Think about the advances in video games. The quality of the graphics is astounding today, compared to just a few years ago. The same applies to automation technology, particularly vision systems.

When the decision is made to implement upgrades or commission a new system, having an experienced control system integrator is an important resource for a successful project. In choosing an integrator you have to consider their technology expertise.

In this month's article we will describe one of our recent successful projects for Kawasaki Robotics (USA), Inc., which involved upgrading a robotics underbody sealer system's vision system and upgrading Mitsubishi A Series PLC to a Mitsubishi Q Series PLC. Patti Engineering, an Authorized Mitsubishi Integrator, was selected for this project because of our extensive expertise and proven performance in integrating Mitsubishi automation technology.



Our employee spotlight is on Senior Engineer Steve Buffmyer. His outstanding performance on the Kawasaki project earned high praises from Ed Minch, Director of Sales & Engineering - Automotive, at Kawasaki Robotics (USA), Inc.

Thank you for your interest in Patti Engineering!

Best regards,

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Kawasaki Robotics Upgrade Project Proves Successful

Ed Minch, Director of Sales & Engineering - Automotive, at Kawasaki Robotics (USA), Inc., knew exactly who to call when he secured a robotics underbody sealer system job for the Toyota Camry's paint line at Subaru of Indiana Automotive (SIA) in Lafayette, Indiana. Knowing his customer, SIA, uses Mitsubishi controllers made his decision an easy one. Patti Engineering, a Mitsubishi Authorized Integrator with extensive expertise in Mitsubishi automation technology, would be the

right choice for the integration job. Ed knew Patti Engineering has a wealth of well qualified engineers with Mitsubishi expertise. He had seen our team in action before and knew we would deliver the top notch quick integration required to keep SIA running with as little downtime as possible.



The Kawasaki Robotics project on the existing robotics paint system consisted of upgrading two Kawasaki robots and replacing four Kobelco robots with new Kawasaki robots. The existing system used a Perceptron vision system and was controlled by Mitsubishi A Series PLC's. The decision to upgrade this system was based primarily on two factors:

- With the Kobelco robots being discontinued and approximately 14 years old, obsolete parts were a problem and causing significant downtime issues. Also, the new technology available today offers significant improvements in speed and accuracy.
- The effectiveness and accuracy of vision systems have increased dramatically in the past two years. Upgrading the vision system translates into significantly reduced manual intervention with the significant increase in the robots ability to detect and then accurately seal where needed.

[Click here to read the rest of the Kawasaki Robotics Upgrade story.](#)

Patti Personnel - Steve Buffmyer



Senior Engineer, Steve Buffmyer, is in our spotlight this month. Steve joined Patti Engineering in 2003 and quickly became an integral part of our engineering team. Patti Engineering's clients span a wide variety of industries and Steve has worked on numerous projects in those industries, including: garment sortation systems (Gartner, Schoenenberger, The Men's Wearhouse, Ross Stores); various automotive projects including paint and sealer systems (FANUC, ABB, and Kawasaki); power train assembly (Ford, DMax, Detroit Diesel, ThyssenKrupp); component balancing (Schenck RoTec); and various other projects including pie palletizing (Sara Lee), industrial cut to length saws (B&O Saws) and ammunition loading (Camdex).

With his experience in such a vast range of projects, Steve has a keen ability to work under pressure and engineer solid solutions. "Our clients love Steve; he is an exceptional engineer", commented Sam Hoff, president of Patti Engineering. "Steve is a key member of our team."

[Click here to find out more about Steve Buffmyer - at work and at play!](#)

