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ENGINEERING SOLUTIONS

RIGHT *from the beginning*

Schedule first...
quality always.

BLUE SAGES

BLUE SAGES

START RIGHT. END RIGHT.

RIGHT FROM THE BEGINNING

Are you **sure?** Whether it's a breakthrough medical device, a life critical aviation control system or the manufacturing system that produces them, it is vital to be sure everything works as designed. Certainty requires expertise and experience, and that is why leading companies and innovators hire **Blue Sages**. Because they know if they want to be sure the end result is right, they need to *get it right from the beginning*.

Blue Sages allows you to be sure. Throughout the product development process Blue Sages produces the results and answers the questions that erase any doubt. For more than eight years Blue Sages has worked with the world's best and most admired companies creating state-of-the-art products and systems that get to market quickly and efficiently. **RIGHT from the beginning.**

STRONG FOUNDATIONS

Project infrastructures provide the communications engine to trace the dynamic interactions of a product lifecycle. Product requirements mature during the product development process and project infrastructures facilitate the management and communication of change. Blue Sages' experts build tools to implement one team or many while protecting your company's secrets.

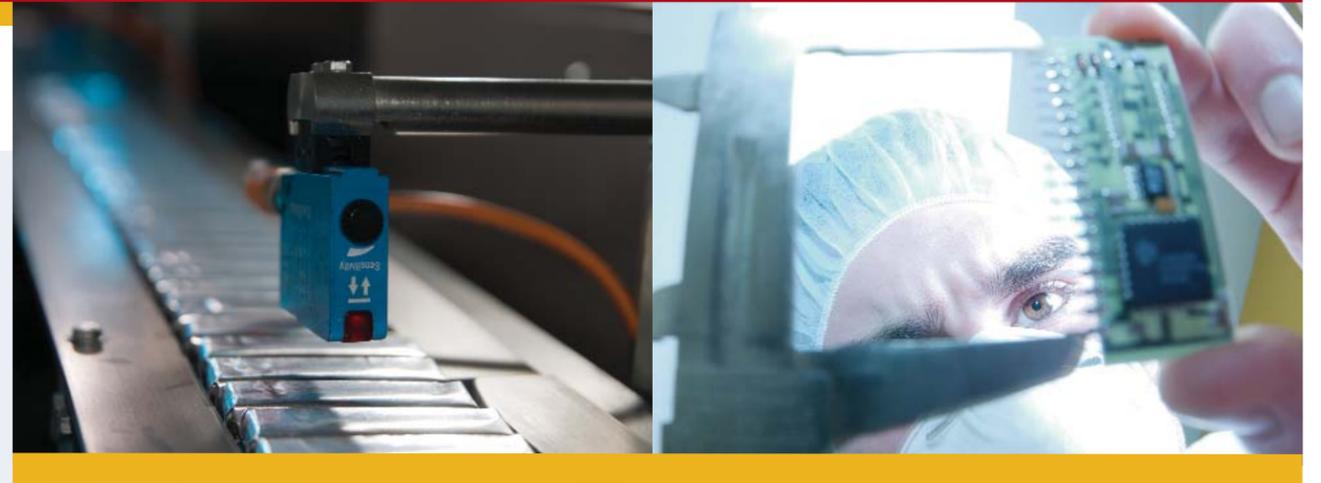## PRODUCT DEVELOPMENT & TESTING

Traditional waterfall development methodologies place testing at the end of the process. Agile methods build feedback systems that gain time but increase project complexity. Knowing how to stabilize requirements and coordinate development and test efforts is exactly the expertise that separates us from the competition.

Blue Sages excels at the tools, functions and management of product development that place you in control of schedule budget — and most important — of quality. Blue Sages accomplishes this using custom tools and sometimes commercial systems. This brings focus to process and improves the outcome.

VERIFICATION & VALIDATION

Formal verification and validation doesn't have to be painful. When you are **sure**, the process is exciting and rewarding. Automated validation speeds the validation by building on the knowledge and efforts created throughout the Design and Development process. Blue Sages' automated Verification and Validation techniques help reduce the log jam from weeks and months to hours and days.

Equally important, as new functions and products are released, Blue Sages' tools and systems provide a seamless regression testing capability that dramatically reduces the verification and validation efforts to fractions of their original cost.

MANUFACTURING VERIFICATION & VALIDATION

Like Agile Development, manufacturing system implementation is a hand-in-glove activity that is heavily dependent on product functionality. Blue Sages' software and hardware systems expertise allows us to drive requirements testing in to the manufacturing process quickly and cost effectively while maintaining line flow and operator control.

Lean manufacturing techniques benefit from functionality testing in the early stages of the supply chain. This results in significant improvements in yield and design for manufacturability feedback that has real meaning.

"START WITH THE END IN MIND"

The words of Sun Tzu aptly describe the strategy of the best product development programs, and Blue Sages has the expertise you need to make your goal a reality. Whether we use your existing facilities, integrate open source solution or develop something custom, Blue Sages has the experience and skills to build systems that allow you to *know for sure, today and tomorrow and beyond.*

Start with the end in mind...

Sun Tzu

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