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DELMIA and Bath Iron Works Shipbuilding

Bio

Dr. Eggert joined Bath Iron Works in 2001 and currently serves as the Technical Lead, DDG 1000 Manufacturing Readiness. With over twenty years of experience developing, deploying, and marketing technology products, his professional focus is on the effective use of technology to create smoother workflows and better business results. At Bath Iron Works, Geoff led development of the vision and toolset for a DELMIA-based planning solution for the manufacture of surface ships. In his current capacity, Geoff provides technology leadership and consulting to the DDG 1000 Planning business process owners. Prior to joining BIW he consulted with small and mid-sized companies on technology and business strategy issues and has held management and product development positions at Lexent Technologies, a marketer of personal asset tracking devices; ANSYS, a leading computer-aided engineering software marketer, and Rensselaer Polytechnic Institute, a top research and teaching institution. Geoff holds Ph.D. and MBA degrees from Cornell University.

Abstract

Part of General Dynamics Marine Systems, Bath Iron Works is a full service shipyard specializing in the design, building and support of complex surface combatants for the U.S. Navy. BIW's 120+ year history reflects a continuous pattern of innovation, new technology and process improvements. Today, we are revolutionizing naval shipbuilding. We are substantially reducing the labor hours needed to build Navy warships by producing highly outfitted modular ship units,

some weighing nearly 1,500 tons, which are erected on our state-of-the-art Land Level Transfer Facility. The result is a highly capable and affordable product for our Navy that carries with it the renowned quality of a Bath-built ship.

Recent initiatives to streamline its planning processes are designed to allow Bath Iron Works to continue its productivity gains as new facilities and programs are introduced. Based on the DELMIA Manufacturing Hub, the system brings the full power of 3D to the planning process. Planners develop the construction sequence and review with manufacturing representatives using the native visualization capability. Integration with downstream execution systems eliminates redundant entry of data and ensures its accuracy.