

Signature Bridges Become Digitally Alive with Parametric Design

design establishes a living workflow that is
change very efficiently, and helps improve

engineering workflows, it applies logic-based,
geometric relationships to adapt in real-time.

parametric design tools for roughly half of his 21-year

ranging from Olympic ski jumps to the largest self-anchored

conventional and signature bridges pushing and flexing the
limits of design innovation. In this interview he explains why

In the same way that an Excel spreadsheet updates on

your eyes by changing the end point coordinates, yet extremely

the spatial relationships are changed or defined.

**Q. WHAT DO YOU MEAN WHEN YOU SAY A PARAMETRIC
DESIGN MODEL IS “INTELLIGENT”?**

development and decision-making cannot be overstated since

expertise and design intent to a centralized digital representation that becomes the evolved proof-of-concept

Q. IS THIS JUST ABOUT USING A NEW, SLICK PIECE OF SOFTWARE? ISN'T THE IDEA OF CHANGING A PIER SHAPE HAVING THE COSTS AND QUANTITIES AUTOMATICALLY RECALCULATE TOO GOOD TO BE TRUE?

working with an owner to explore alternatives to articulate a

an engineer define a parameter (such as a pier dimension) and define

digital connections, be it Excel data tables for plan sheets, the

About the Author

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About the Article

[HDR's Experts Talk](#). Experts Talk is an interview series with
