Can CAD Really “Aid” Architects to Design Better?

Let’s assume that you are an architect and can choose any CAD tools to increase quality of your design. What tools would you choose? How would you integrate those tools? What are the limitations of CAD tools today? Above all, how would you persuade yourself besides others that those CAD tools can help you to design better? What kinds of CAD technology and tools are available today? What is parametric CAD system and how it works? Can CAD help architects to be not only a designer, but also a ‘master builder?’ What are the building elements and their behaviors required for a CAD tool to be intelligent system? What are the limitations of current CAD tools?

The first CAD tool, 1963

The history of CAD & the latest CAD technology: parametric and feature-based CAD system
Theories on design processes & methods
Hands-on training on a parametric CAD tool, Solidworks®
Introduction to Revit®
A framework for structuring abstract building elements (a conceptual and semantic model of a building)
Evaluation of alternative CAD tools

ARCH 4803 (ARCH 8803), Spring, 2003

Open to undergrads, masters and doctoral students
Course: Parametric CAD as a Design Aid
Number: ARCH 4803, Cross-listed with ARCH 8803
Instructor: Ghang Lee
Room: Old Arch Bldg 107, Computer Lab
Assessment: exercises, written reports, and presentations
Parametric CAD as a Design Aid: Designing with Computers

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http://dcom.arch.gatech.edu/courses/cadda
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