

The Effect of Computational and Digital Programming on interior design and Architecture Technology's Development

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Abstract:

The Technological progress that began with the industrial revolution during the 18th century was “the modern design epoch (1890:1850)”, that has had a direct impact on schools of architectural design, down to the contemporary digital age of the 1980 to the present.

Computational/ Digital Design is an application of computational strategies for the design process. While the designer relies on intuition and considerable experience in solving design problems, so digital design aims to reinforce that the process by encoding the designer's decisions using the language of computing. So The Digital design is a far-reaching term that starts from a design creation process to a design automation process, so using a suitable visual programming tool serves as a common line between design and execution, given the ability to simulate a design and performance by providing a means for evaluating a design to similar standards for a design environment.

[As the trend towards complex buildings increased, the form creation strategy was considered to be one of the most important strategies for finding suitable solutions for the design of these structures, so the construction systems had to be developed based on analogue instruments for simulating the mono constant influence of gravity. These tools then allowed the manipulation of parameter equations to develop these strategies for models influenced by several different and heterogeneous variables such as geometry, dynamic forces, environment and social conditions.](#)

So the Research Problem is: deducing the effect of computing and digital programming on the design process and implementation technology. This role did not stop with the design process, but continued with the production, manufacturing, and digital implementation process, but eventually came to merge the design, production, manufacturing, and implementation process.

Key words:

(Digital Programming - Simulation – Design – Applied Forces).