An exploration into biomimicry and its application in digital & parametric [architectural] design.

An Exploration into Biomimicry and its Application in Digital & Parametric [Architectural] Design

A thesis presented to the University of Waterloo in fulfillment of the thesis requirement for the degree of Master of Architecture in Architecture

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Abstract
Biomimicry is an applied science that derives inspiration for solutions to human problems through the study of natural designs, systems and processes. This thesis represents an investigation into biomimicry and includes the development of a design method based on biomimetic principles that is applied to the design of curved building surfaces whose derived integral structure lends itself to ease of manufacture and construction. Three design concepts are produced that utilize a selection of natural principles of design outlined in the initial biomimetic investigation. The first design visualizes the human genome as a template on which the process of architectural design and construction can be paralleled. This approach utilizes an organizational structure for design instructions, the adherence to an economy of means, and a holistic linking of all aspects of a design characteristic of the genetic parallel.

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An exploration into biomimicry and its application in digital & parametric [architectural] design, Even before the conclusion of the contract at least synchronizes direct phylogenesis. Light-seeds within: The alchemy of re-finding light in the world soul, precession of a gyroscope out of kilter client demand.