Polymer Shell Structure

Nathan Scott
Iowa State University

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“By understanding the real world constraints and solving structural and material connections, the digital design process will ideally reduce the overall time a project is in construction and solve problems before they occur. Through the use of the software Rhinoceros and the plug-in Grasshopper, I was able to create a parabolic pavilion that has parameters that change its height, width, and modular divisions. The definition also facilitates the use of a CNC router, cutting pieces that fold into individual units that define the structural system. This pavilion was formulated using the popular form finding process, made known by designers such as Isler and Gaudi, while incorporating the digital fabrication process gaining recognition in today’s design community.