**Boolean Architecture**

**What is Boolean Logic?**
- Created by George Boole (Boolean Algebra)
- Based on true or false (1 or 0)
- Logic system used by computers
- The most common computational terms are AND, OR, NOT

**Boolean Union**
- Combining shapes into one singular shape

**Boolean Intersect**
- Finding the intersection of shapes

**Boolean Difference**
- Subtracting one shape from another shapes

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**Knox Grand Concert Hall**

The goal of the proposed design was to create a building with a unique identity. The design employs a complex system of curves on the exterior skin that creates a singular shape. These curves curve into the interior and are expressed as large scale features for concerts and became an architectural element as one ascends through the levels. The lower levels consist of a lobby, grand hall, grand staircases and core shafts and a grand escalator located in the lobby. The design was created to create a plaza, entrance, and roof geometry that allows improved performance. The lower levels support the main area and provide access to the core shafts. The program includes conference rooms, exhibition rooms, administrative offices, business center and retail space. The design is based on a complex geometric simulation of all three kinds and a modern, curved parking garage with three levels. There are three core shafts and a retail center integrated in the plaza. This schematic design has a superior function and architectural presence.