The research for this project is fueled by a preexisting concept existing in the architecture world. Folding has been a trendy topic for over a decade. The idea of creating a geometry based on the process of fold-crease-score-hinge (in various arrangements) can lead to revolutionary ways of thinking about architecture. Although the fold-crease-score etc. method is influential, my research takes it one step further and uses folding as an application of motion. Gaining inspiration from the origami magic cube, I was able to push the limits of the process in order to concoct different ways of using folding for architectural systems and furniture.

**Folding Architecture and Its Applications**

**The Logic**

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**Light**

World renowned architect Louis Kahn, dwelled on natural light playing a key role in architecture. He created geometries in his buildings in a way that light can enter and effect the atmosphere. I continued with Kahn’s theories and practices in order to use the folding of these prisms to add and subtract light. These geometries are used as wall or window systems.

**Materials**

These materials are capable of satisfying the design aesthetic. Each material embodies a unique feel, which can contribute to an atmosphere suited for one’s needs.

- Cardboard
- Plastic
- Metal
- Wood

**Connector**

Each connector is made so the “prisms” can rotate and become flushed with each other. Alternating the position of the connector with the voids allows for the connector on the opposite side to fit into the voids.

**Applications of Prisms**

- School Desks
- Coffee Table
- Light Implementer