

PUSH

Fall 2021 Furniture I Professor Richard Prisco

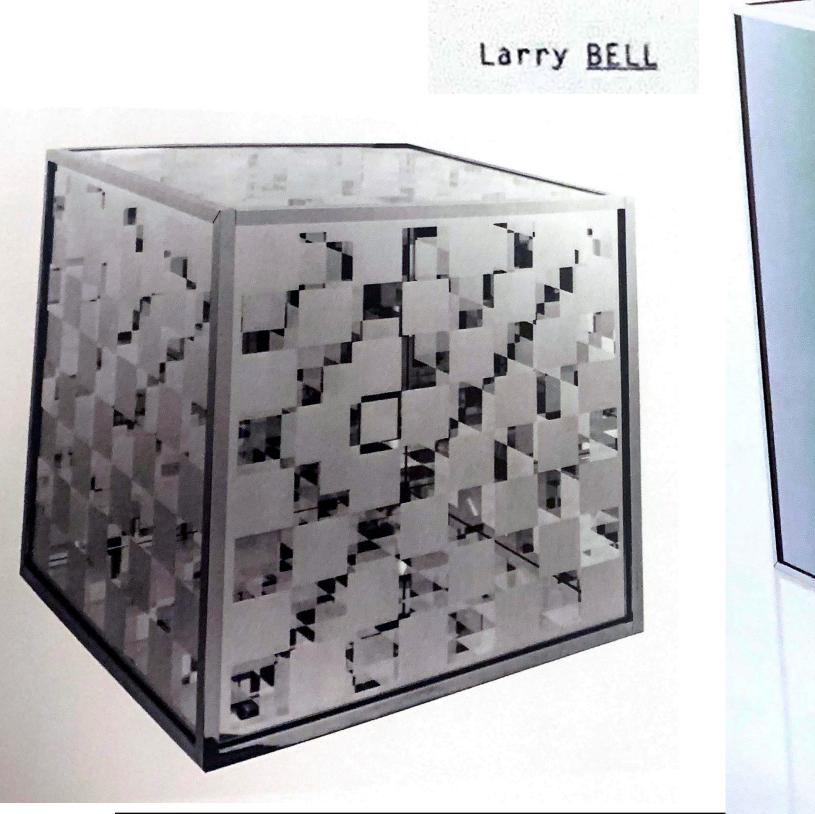
Design Brief

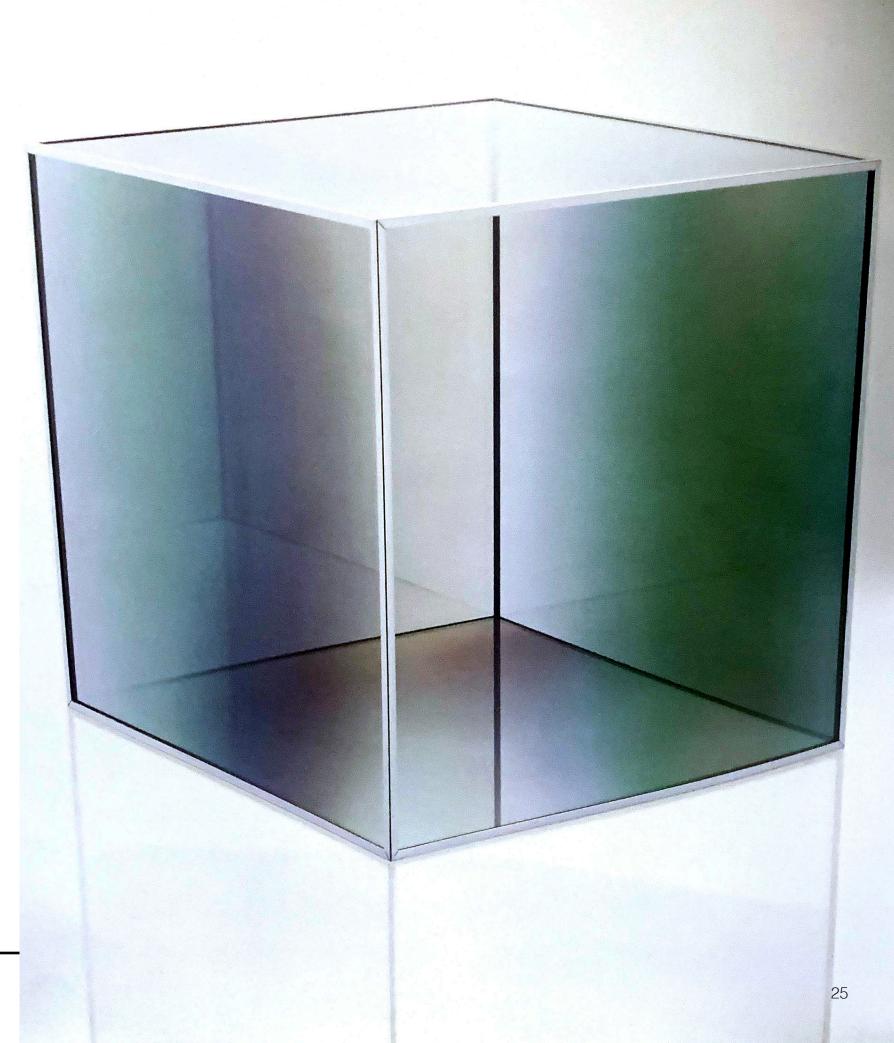
PUSH uses quality materials coupled with attention to detail and craftsmanship to broadly convey depictions of the design elements of point, line, and plane while also functioning as a lighting object. Point, line, and plane exemplified in others work led to many decisions on materials and compositions to be used in PUSH's display of these elements. Specifically, works by Dan Flavin and Larry Bell featured in "Minimalism" by James Meyer were heavily influential in this projects design direction. Clear planes, light diffusing rods, and poured bubbles were all observed and carried into the ideation for PUSH with the intent of these materials directly reflecting their visually similar elements.

The production of this light began with ten initial concepts born of the research mentioned prior. The selected concept required a pushing motion to turn the lamp on and off leaving PUSH with it's name. The initial renders, in Rhino and KeyShot, coupled with insight and critique surrounding the volume and functional models, all helped to increase clarity about size and ratios between separate elements, placement of these elements, and material choices.

PUSH is constructed using acrylic rod, acrylic sheeting, poured resin, black walnut veneer, water based spray polyurethane, EVA foam, machinable felt, solvent bonding liquid, a toggle switch, wires, an E12 sized bulb socket, a 1600 lumen corncob LED bulb, and screws. Processes included cutting, solvent welding, tapping, and milling acrylic as well as pouring and machining resin, applying and treating veneer, and installing lighting components.

Initial Research





Initial Research



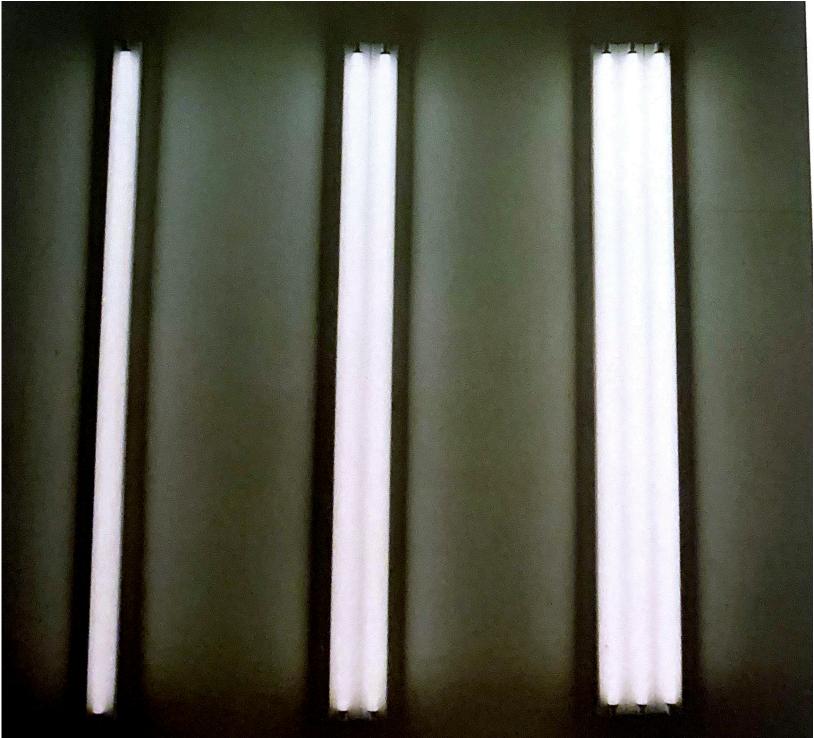
Dan FLAVIN the nominal three (to William of Ockham) 1964-69 Cool white fluorescent light h. 244 cm [96 in]

Dan ELAVIN

Robert Rosenblum)

1963

Cool white fluorescent light 1. 244 cm [8 ft]



the diagonal of Nay 25, 1963 (to

Initial Research



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1/////



Dan FLAVIN

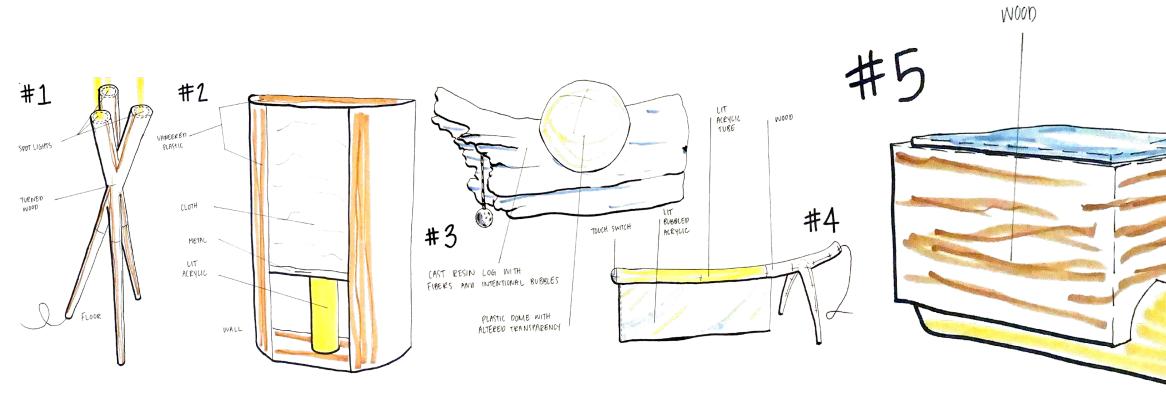
Städtische Galerie im Lenbachhaus, Kunstbau

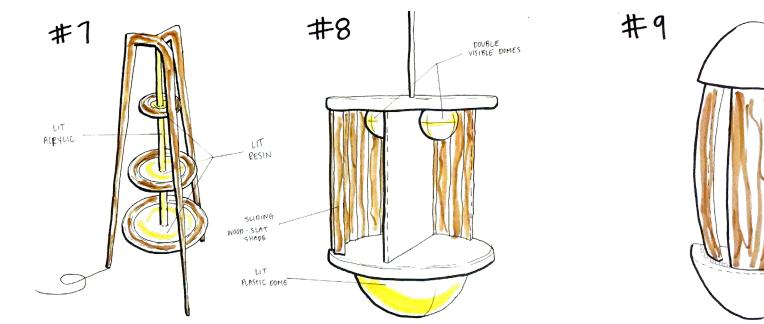
16 July-6 September 1998

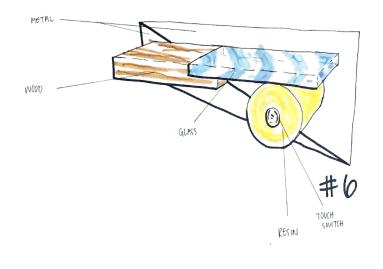
Installation view

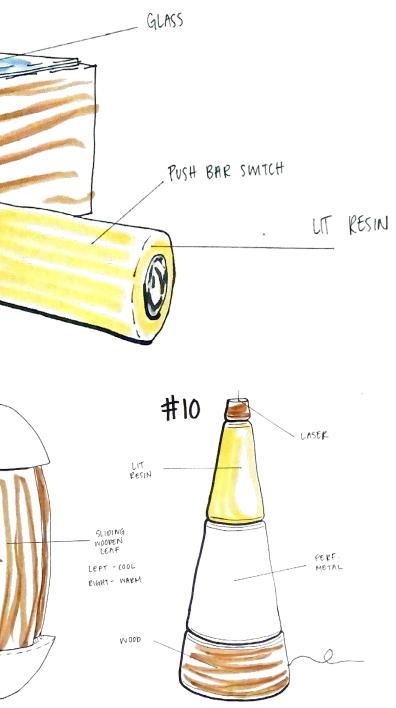


Initial Sketches

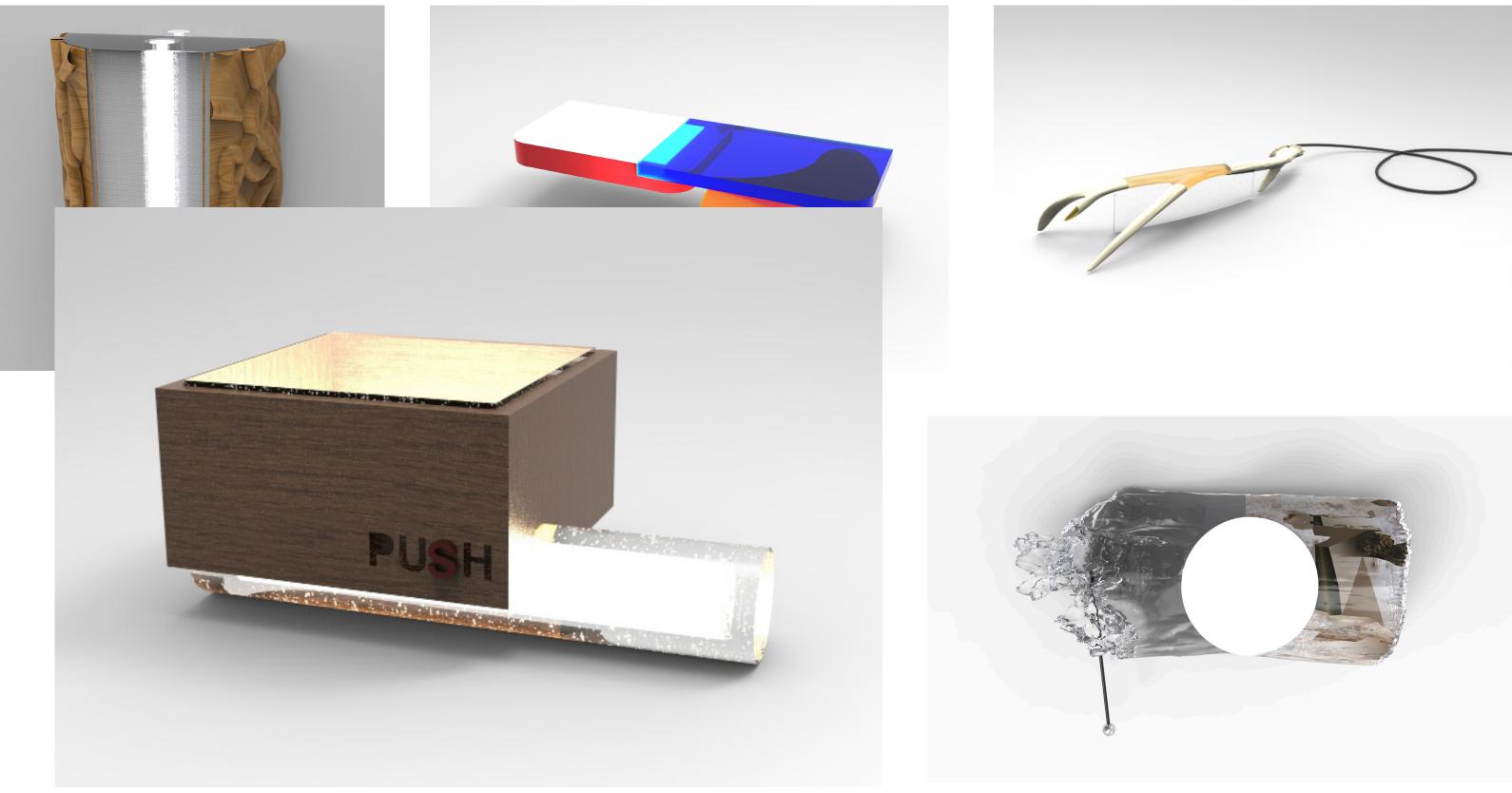




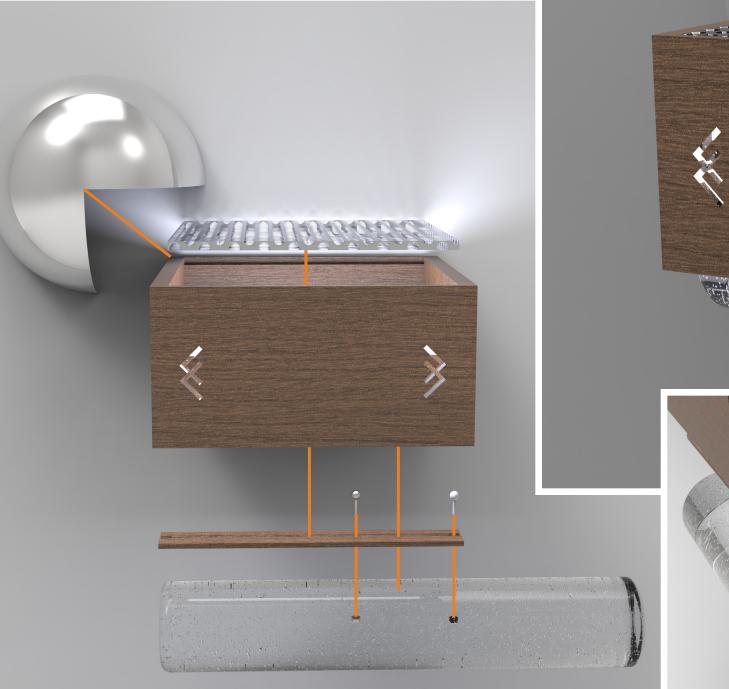




Five Refined Concepts



First Refinement of selected concept

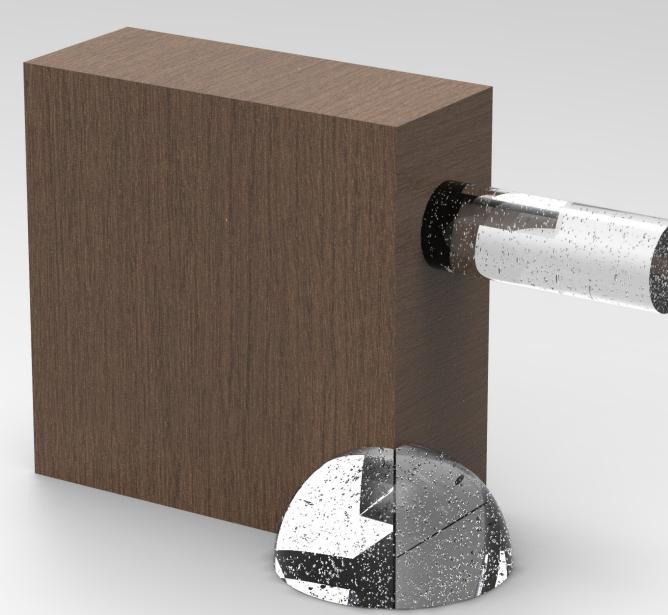






6" STAINLESS STEAL DOME •7" SQUARE PERFORATED ALUMINUM SHEET • 7 1/2" X 7 1/2" X 4" WALNUT "BOX" •7" X 1" X 1/4" GROOVED WALNUT PLANK
2 1/4" BUBBLED ACRYLIC TUBE • TWO 15MM METAL BALL HEAD SCREWS WITH 6MM DIAMETER HEADS • TWO NUTS • EPOXY RESIN • WOOD GLUE
4 BRACKETS AND SCREWS • TOGGLE OR PRESSURE SWITCH • LIGHT MOUNT • BULB • WALL BOX

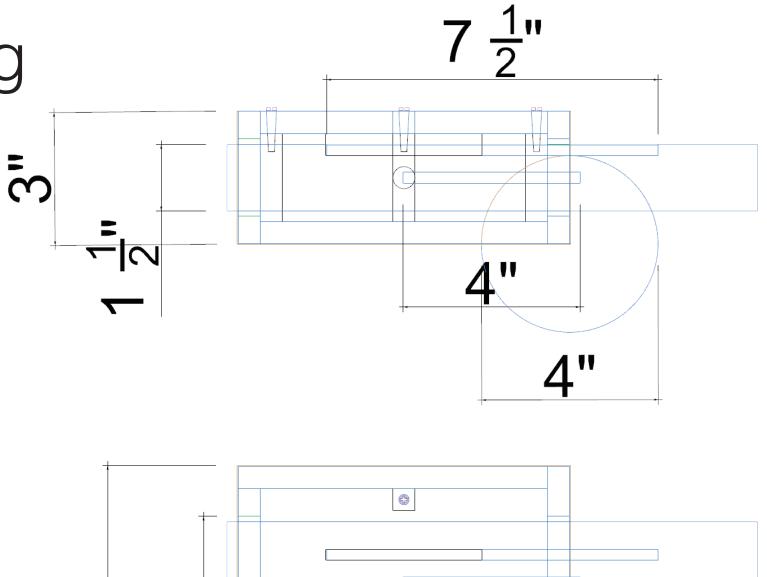
Final Rendered Iteration



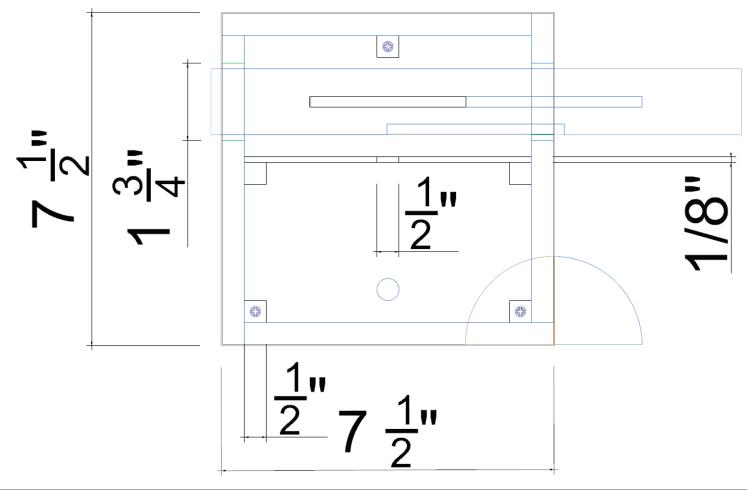


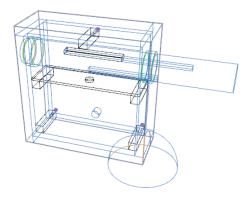
Resin hemisphere and acrylic rod act as only points of light escape

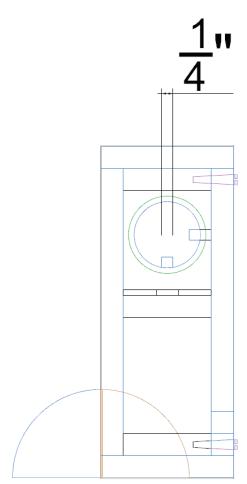
Engineering



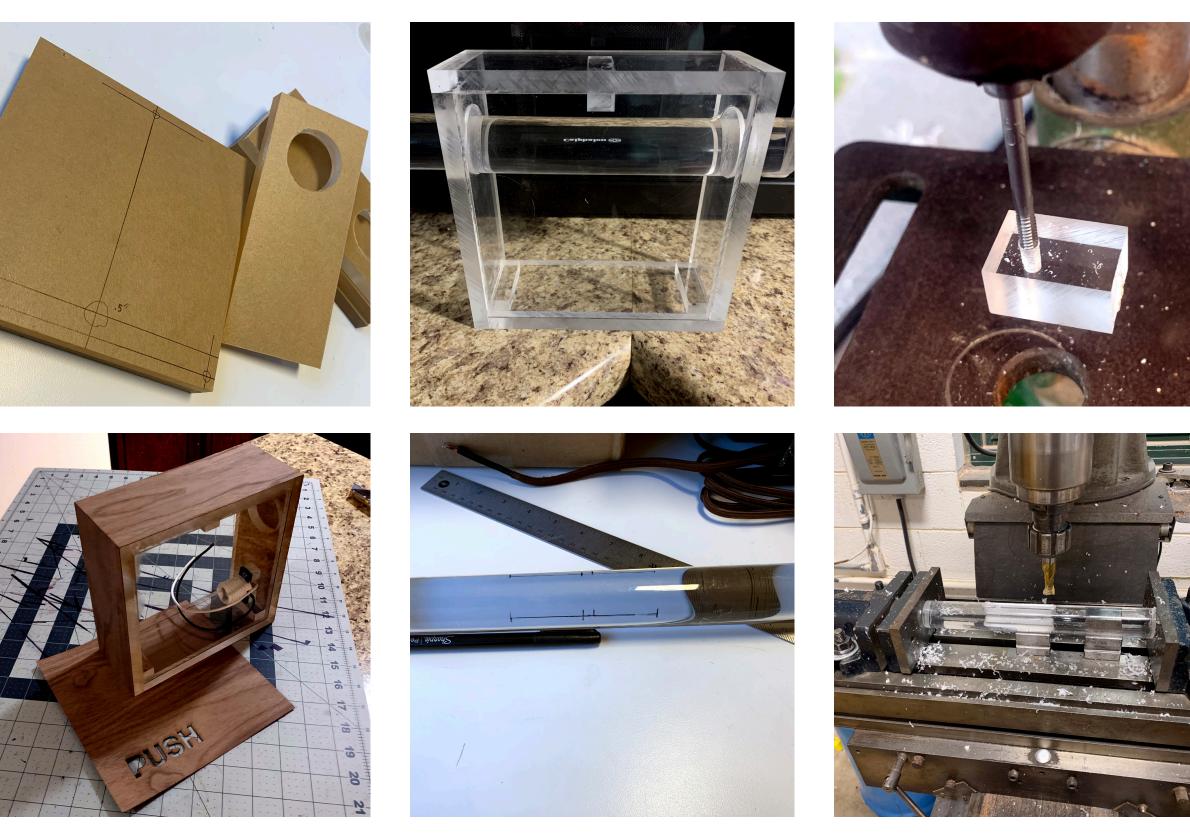
Critical and general dimensions using standard drafting conventions.

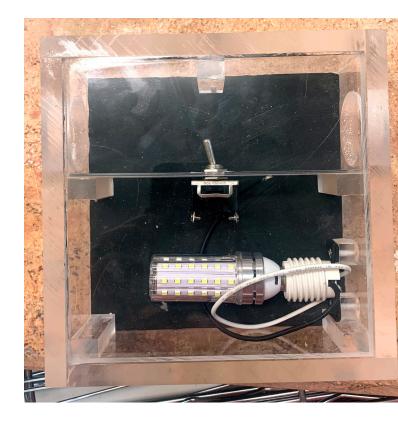






Building Processes





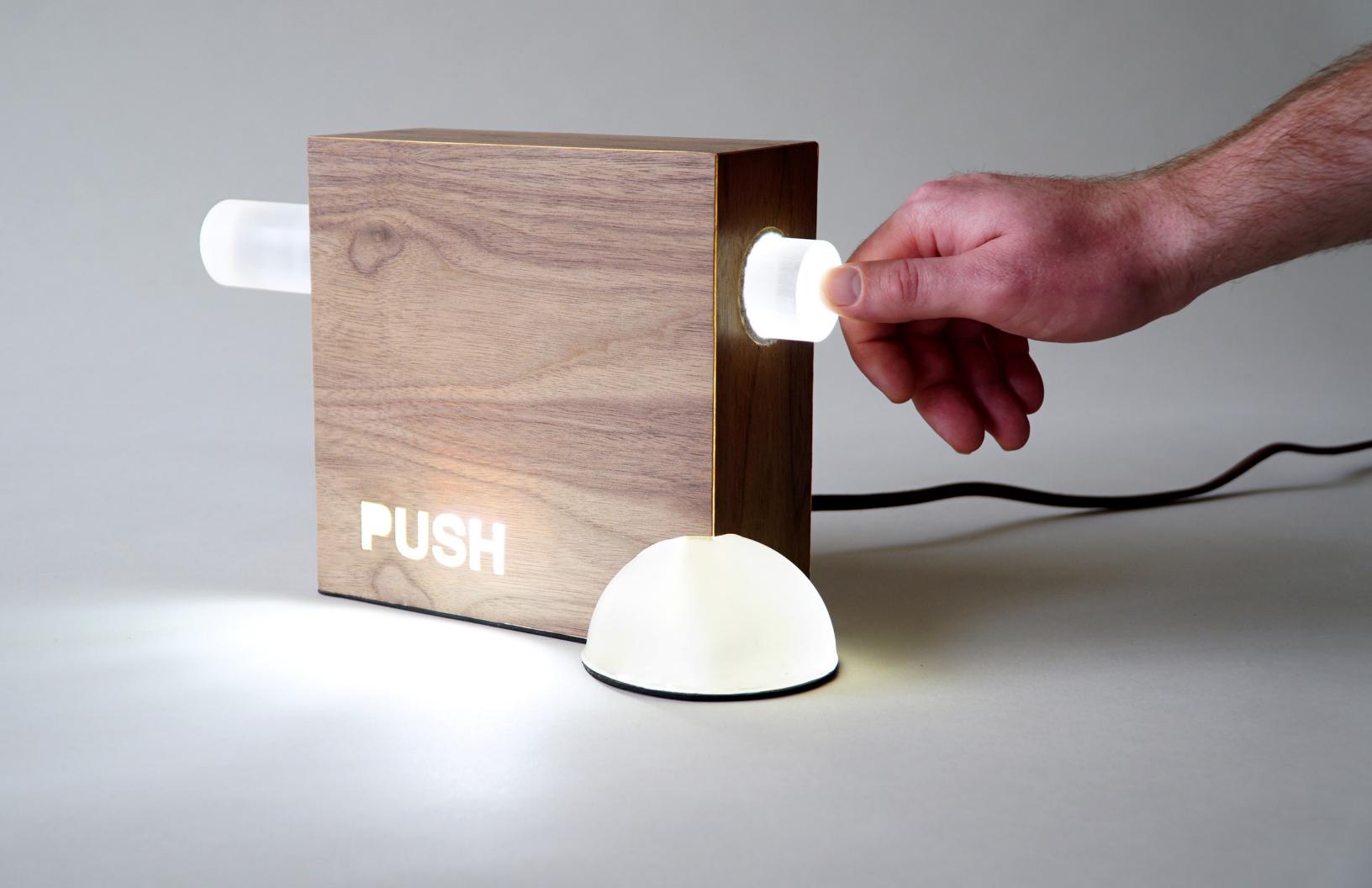


PUSH

Final Prototype









Acknowledgment

PUSH was recognized as a student lighting entry finalist in the Fall 2022 ISFD Innovation+Design Competition.

