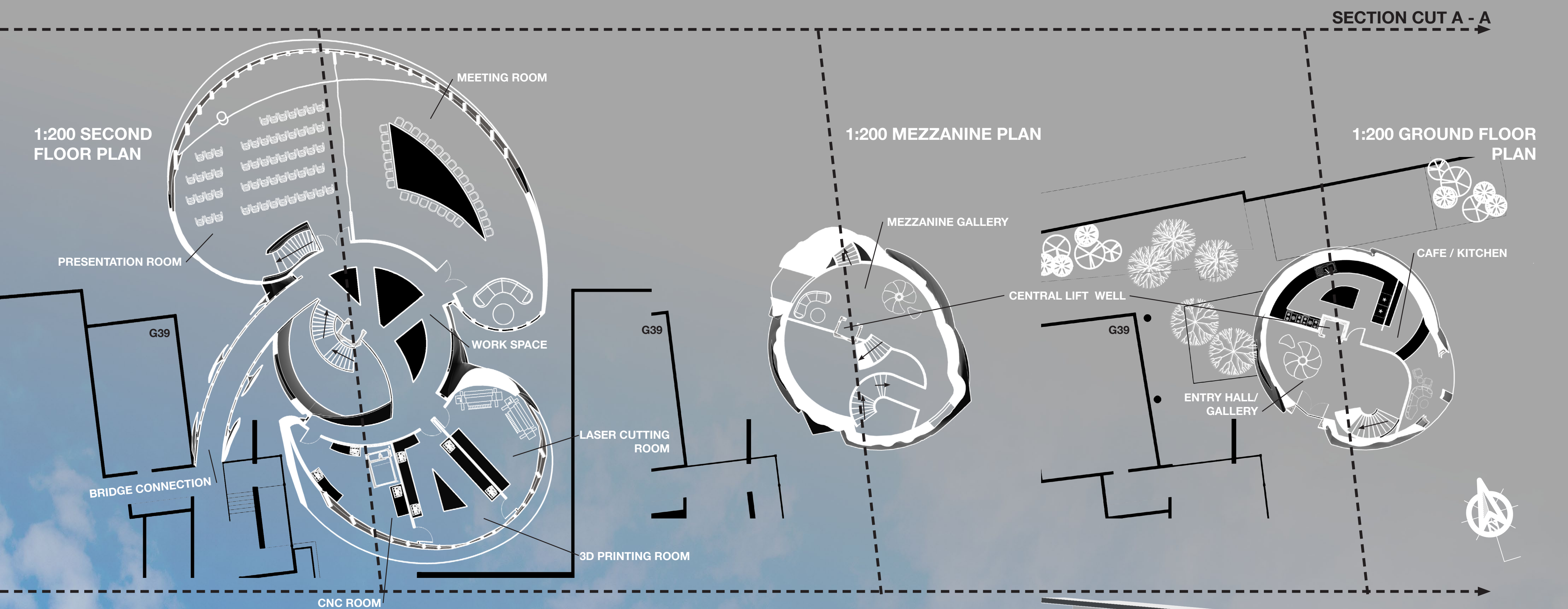


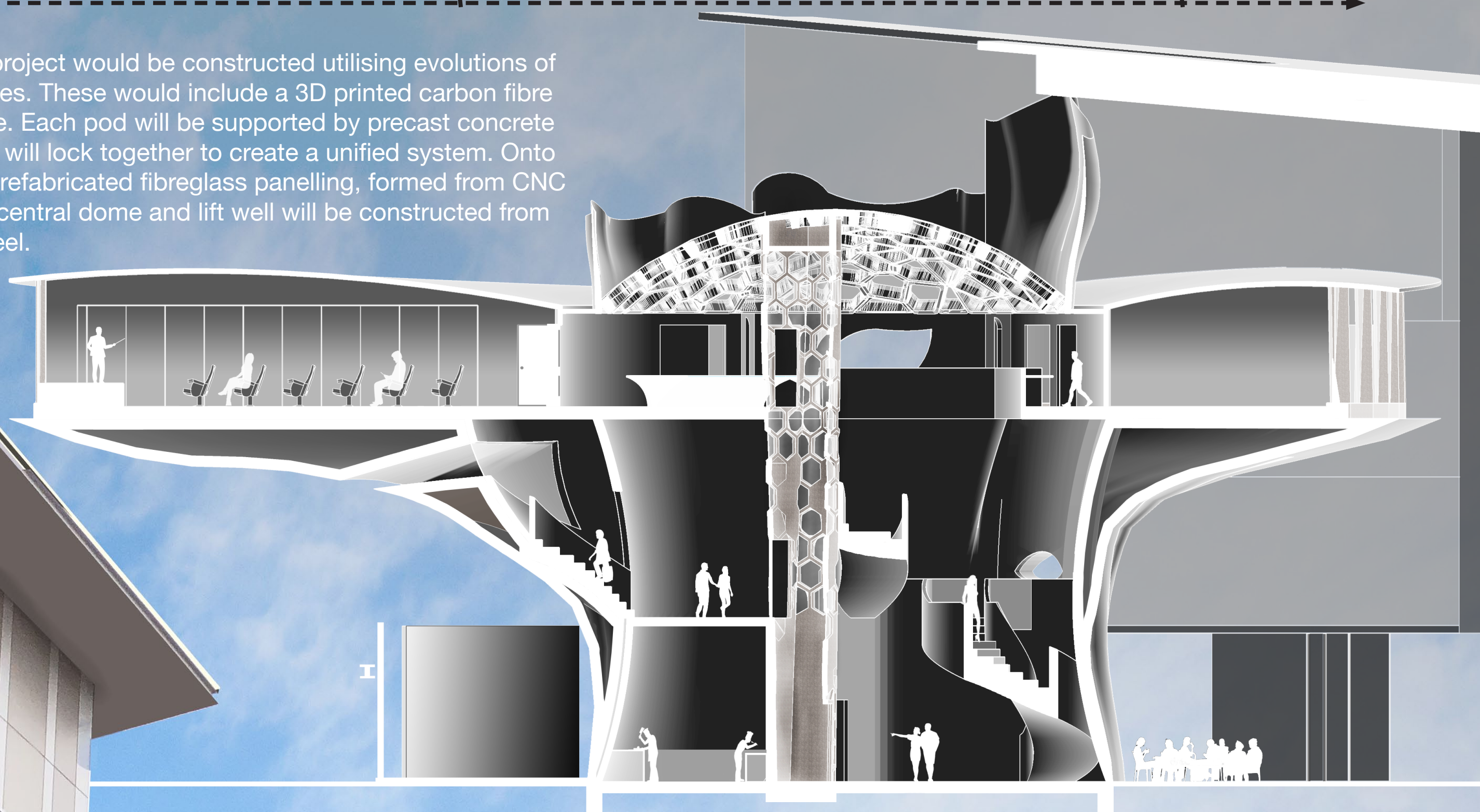
PETAL PODS

HARRISON DOWLING - S2852335

ARCHITECTURE STUDIO THREE

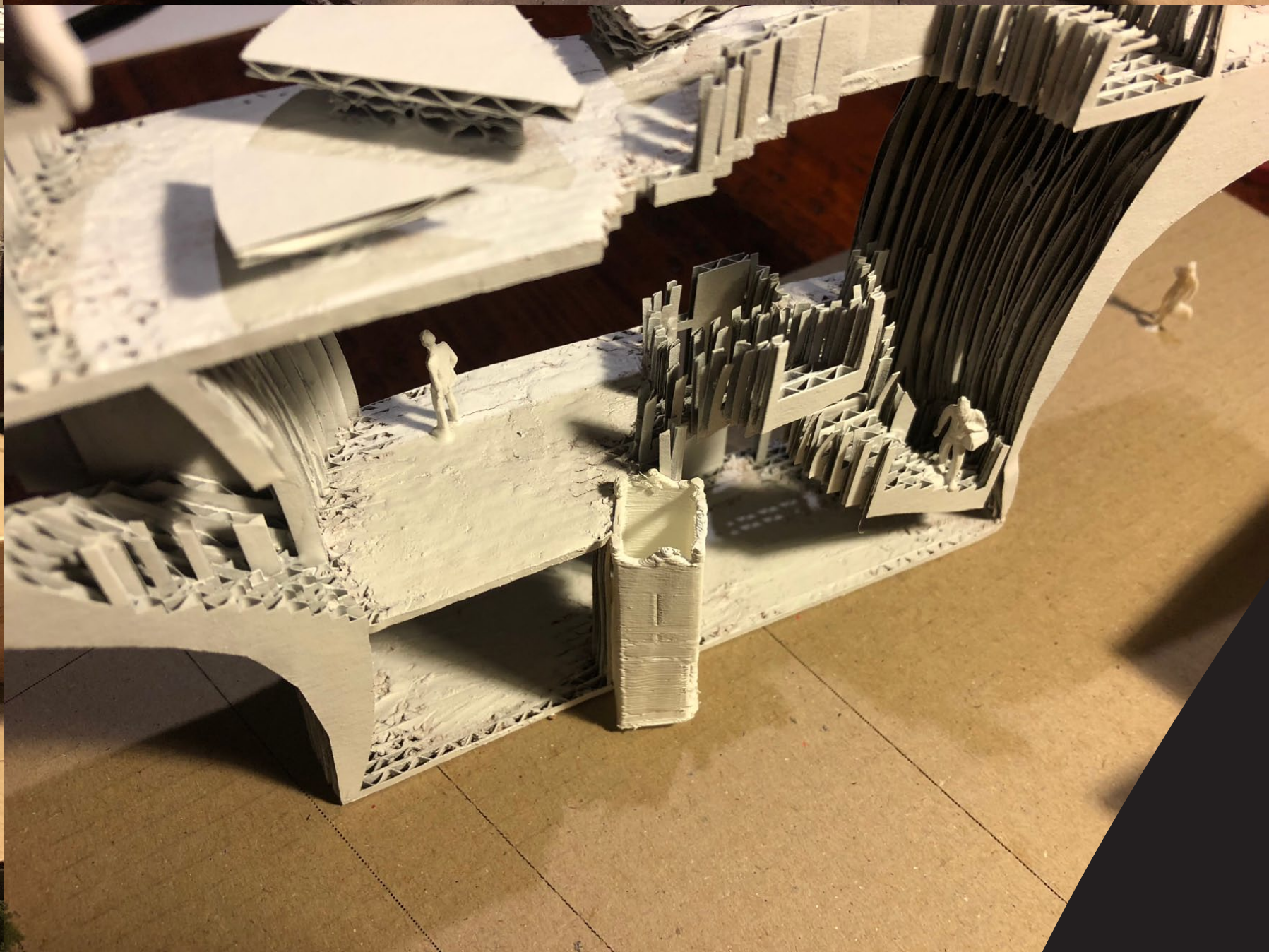
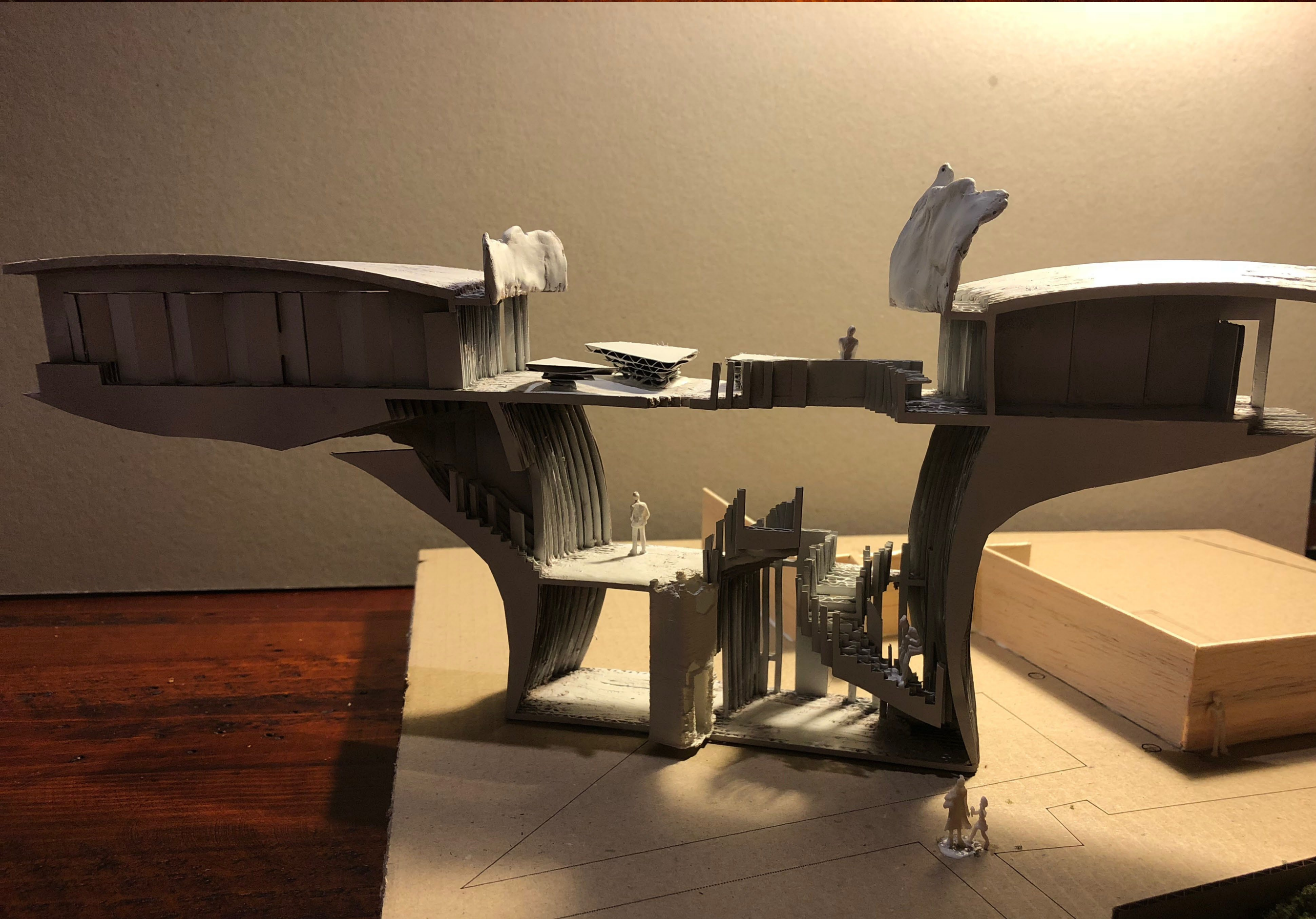
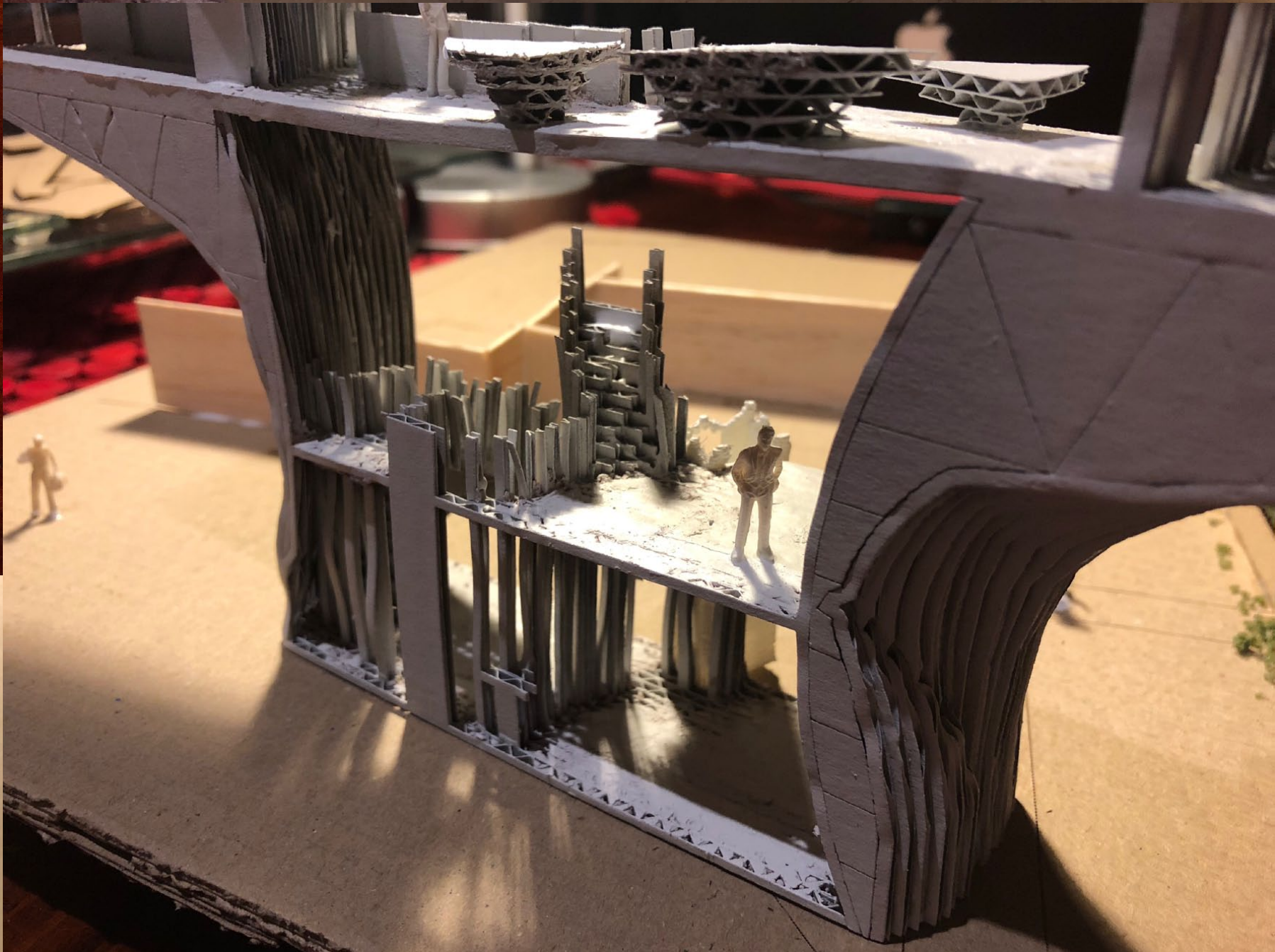
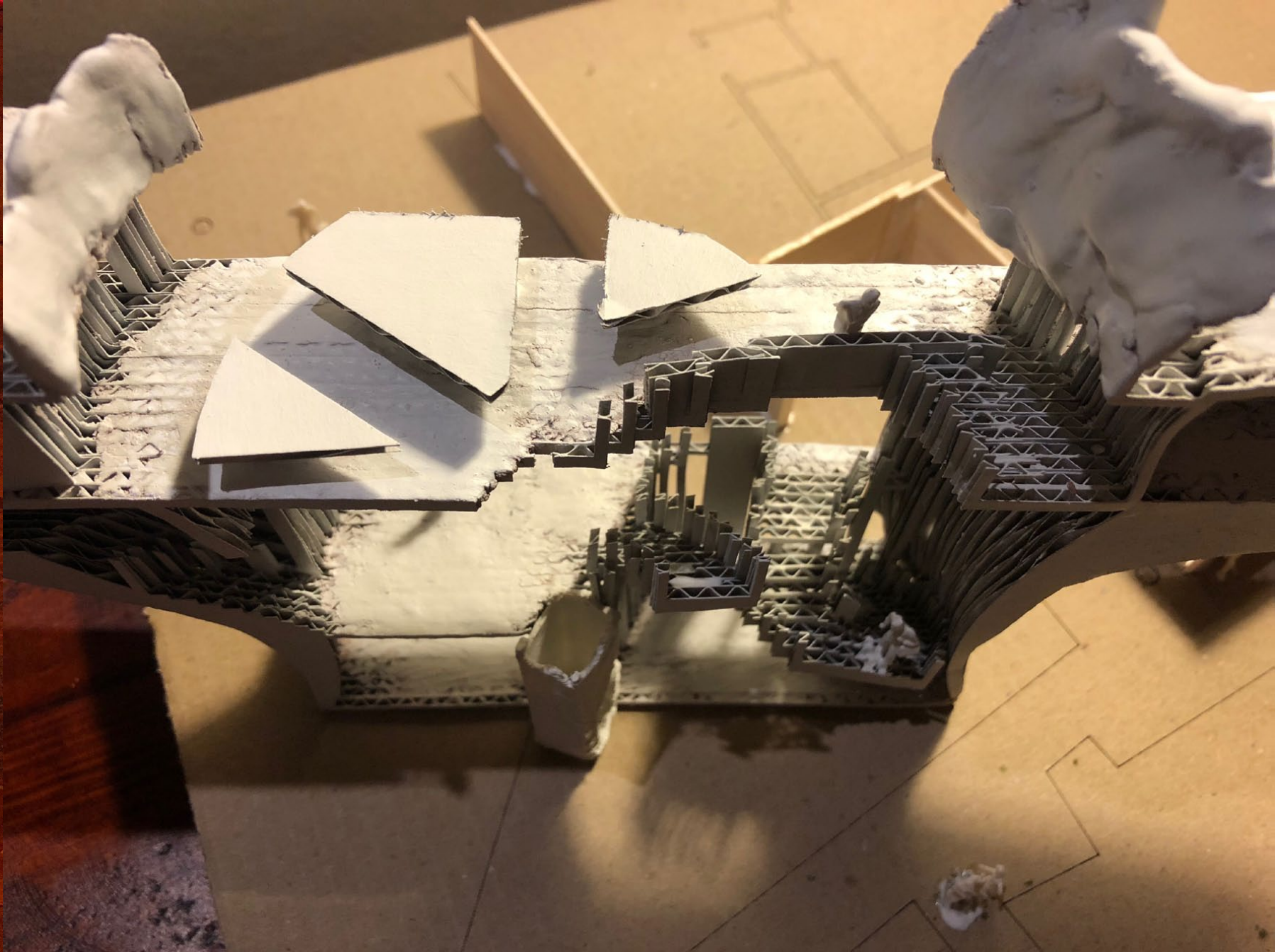


CONSTRUCTION: This project would be constructed utilising evolutions of existing building practices. These would include a 3D printed carbon fibre reinforced concrete core. Each pod will be supported by precast concrete structural elements that will lock together to create a unified system. Onto these will be attached prefabricated fibreglass panelling, formed from CNC machined moulds. The central dome and lift well will be constructed from conventional welded steel.



TECHNOLOGY: This project would utilise a semi-transparent photovoltaic film, applied to the roof and petal structures to create a unified solar panel. A Photochromic film would be applied to the ceiling glass of the central dome to reduce the penetration of direct sunlight, reducing heat gain but maintaining natural light when the sun is at low angles.





1:100 SCALE Sectional Slice Model



M O D E L P H O T O S

H A R R I S O N D O W L I N G - S 2 8 5 2 3 3 5

A R C H I T E C T U R E S T U D I O T H R E E