

Design Project 2

The second design project I did for Engineering Design 100 was to create a new design for a stackable seven port USB hub capable of vibration loading and horizontal/vertical loading. The specific customer for this project was Lockheed Martin. Much of the work Lockheed Martin does is on computers so they requested a more functional and effective USB HUB.

Based on Lockheed Martins requested requirements my group researched and designed a revolving USB hub. As seen below our design uses seven rotating cubes connected by a rode for USB loading at any angle. Each individual row is able to be stacked by the two connecting blocks on either side of the rows. This lego-like design allows the consumer to stack as many rows as they would like.

Below are images of the outside and inside views of individual rows of seven-port USB ports and a stacked version of the product.

