Revolving USB Hub

When confronted with choosing a project from the five projects presented to us by Lockheed Martin, we decided to work on the USB Hub mounting project. We chose this as our project because of its relevance to our lives as students and will continue to impact our lives as adults. Going into the project, we also had general knowledge about the topic.

The first step in designing a model for this project was identifying the problem. Lockheed Martin was very direct in what they would like in the design. LM wanted a new mounting bracket with four to seven USB ports, capable of mounting both vertically and horizontally, can easily be stacked three high, can withstand heat from 0 to 25 degrees Celsius, and be able to survive vibration loading.

When then decided to redefine the problems before we could start discussing possible solutions. We understood that many building materials remain in a solid stable condition for temperatures between 0 and 25 degrees. (1) Vibration loading