USB D-Link Hub Bracket

Team 4                      Spring 2016
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Introduction

For the advancement of a custom avionics mission system, it will require a USB Hub bracket as a debug and auxiliary mounting device. It will allow the bracket to have an increased capacity and vertical mounting.
Design Objectives

The objective of this design was to make changes to the present USB hub mounting bracket.
- Change from Horizontal to Vertical mounting
- Design New Cable Retention System
- Design for 7 ports
Design Approach

Our team took several steps to make this design:

◉ Brainstorming
◉ Sketching
◉ Design Matrices
◉ Modeling
◉ Testing
◉ Manufacturing
Analysis of Design

- Structure
- Material
  - Biodegradable (PLA)
  - Easily Printed
- Vibration Loading
89 Hz
245 Hz
296 Hz
Thank You

Any Questions?