

Lockheed Martin

Additive Manufacturing

Introduction to Engineering Design EDGSN 100 Section 001

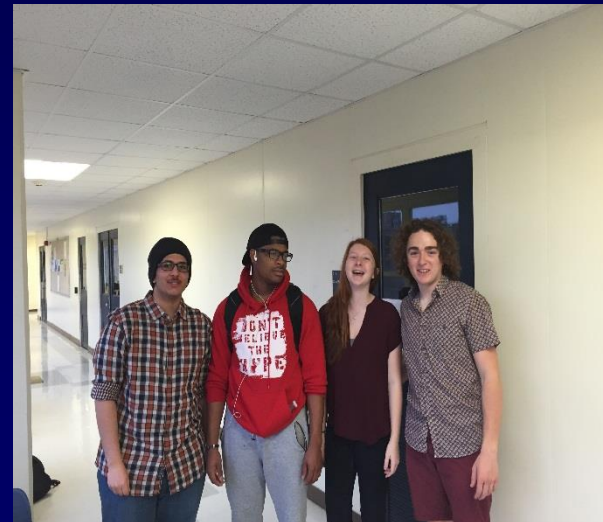
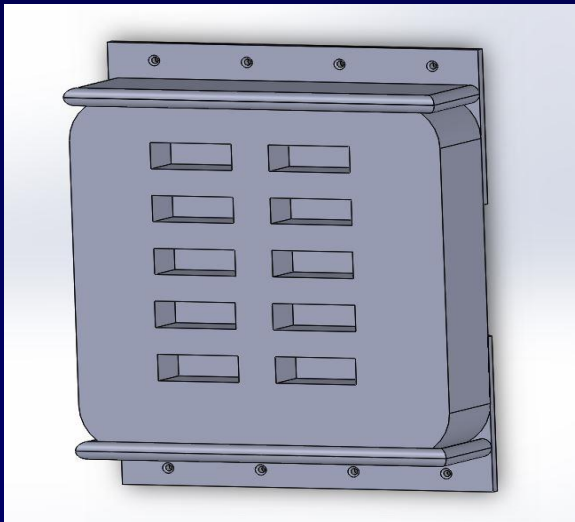
Steel Corps / Design Team 2

Nelson DiBiase, www.personal.psu.edu/njd5280, njd5280@psu.edu

Isaiah Wright, www.personal.psu.edu/imw5052, imw5052@psu.edu

Bailey Frisco, www.personal.psu.edu/bsf5117, bsf5117@psu.edu

Youseif Alotaibi, www.personal.psu.edu/yxa6@psu.edu, yxa6@psu.edu



Presented to: Prof. Berezniak

Date: 04/29/2016

Purpose



The purpose of this project is to redesign a USB Hub Mounting Bracket. The primary goal of this project is to reduce the total number of parts for this assembly.

Background

- The USB Port is used as a debug and auxiliary mounting device for a custom avionics mission system.



Sponsor

LOCKHEED MARTIN

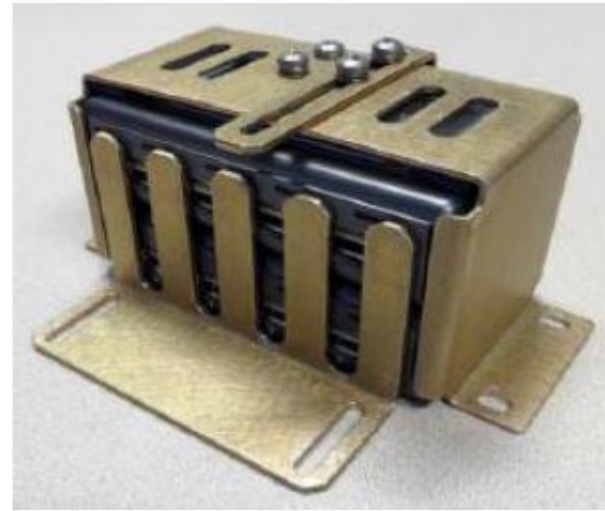
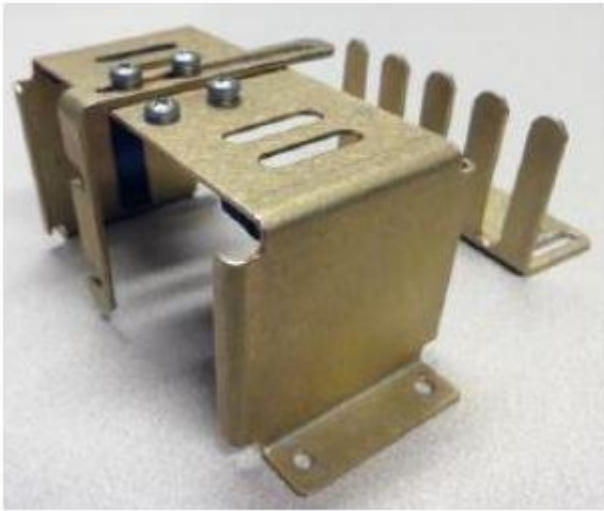


Our project sponsor is Lockheed-Martin. The company's headquarters are located in Bethesda, Maryland. Their main focuses are global security and aerospace engineering.

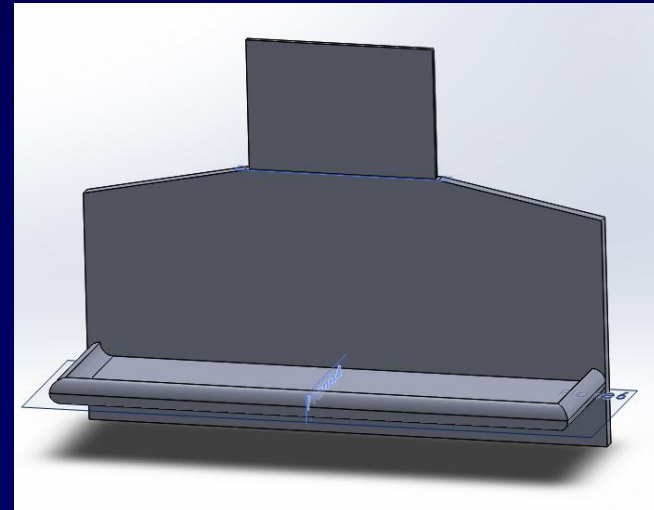
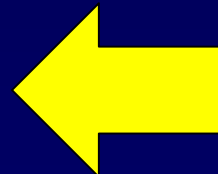
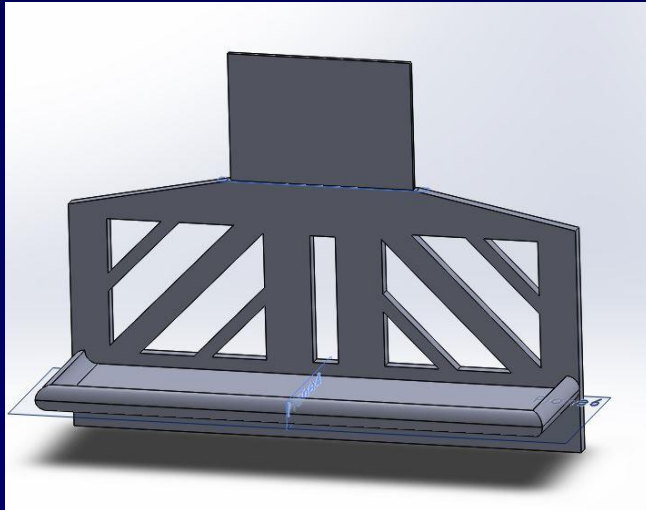
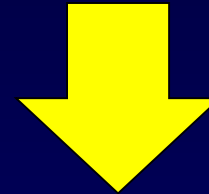
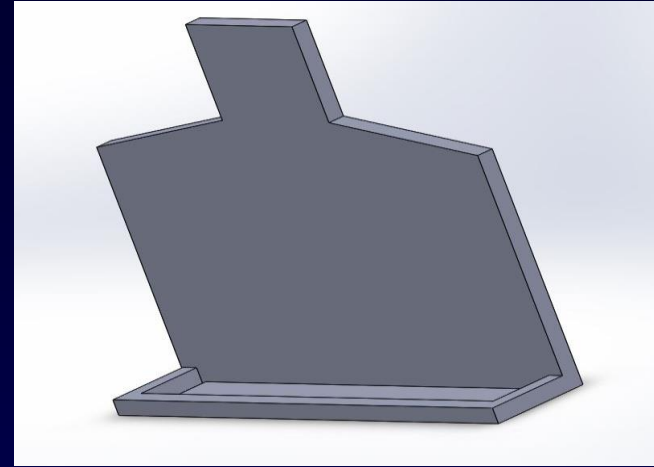
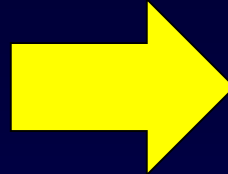
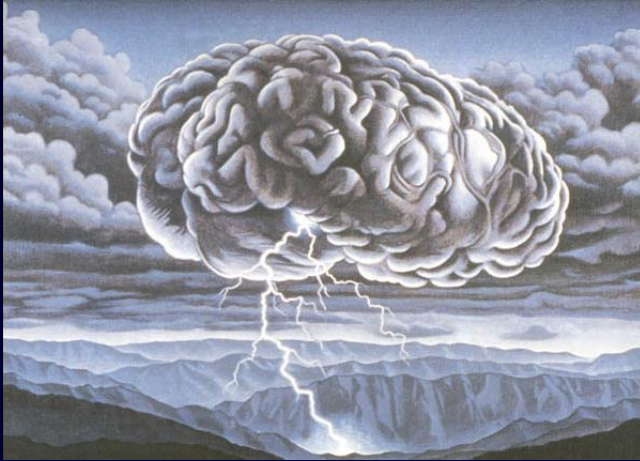


Project Description

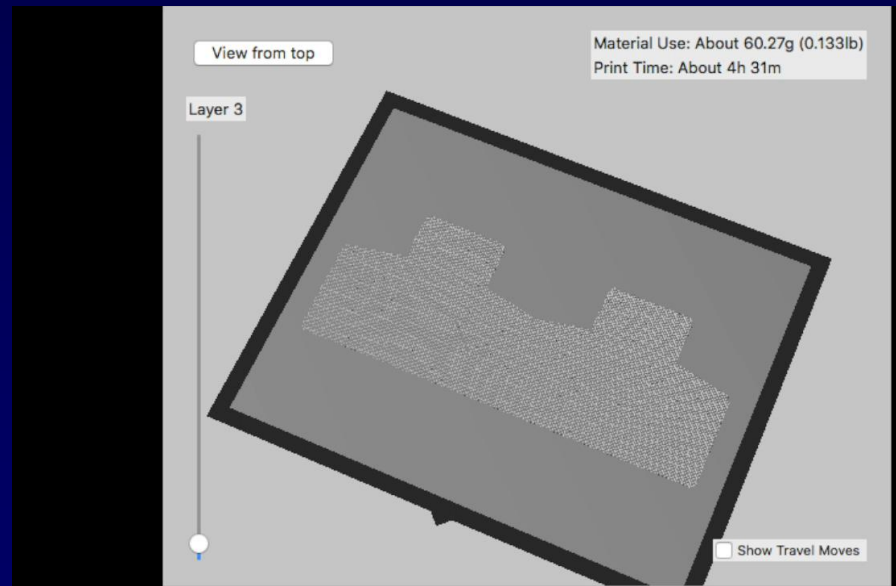
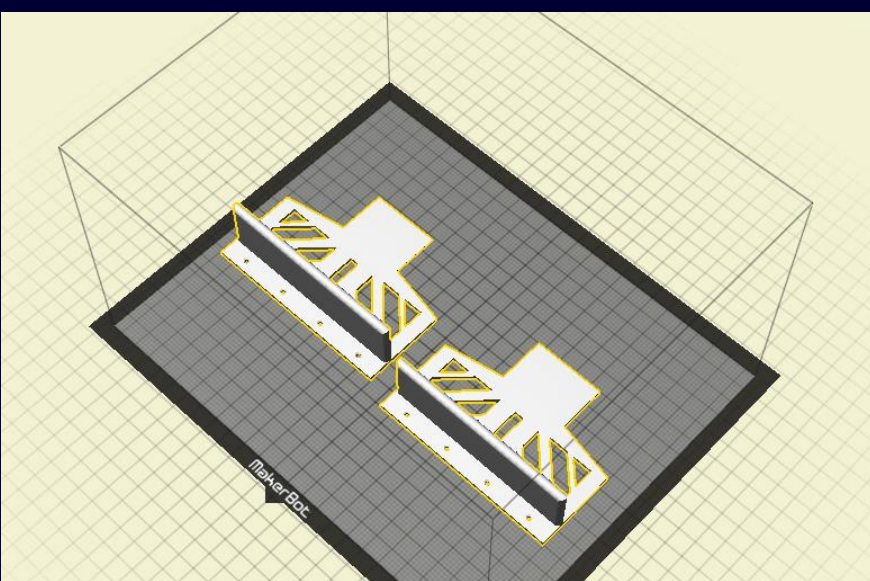
The company wanted the new bracket to provide greater capability for the avionics technician and also allow the USB hub to be installed in various locations on the platform.



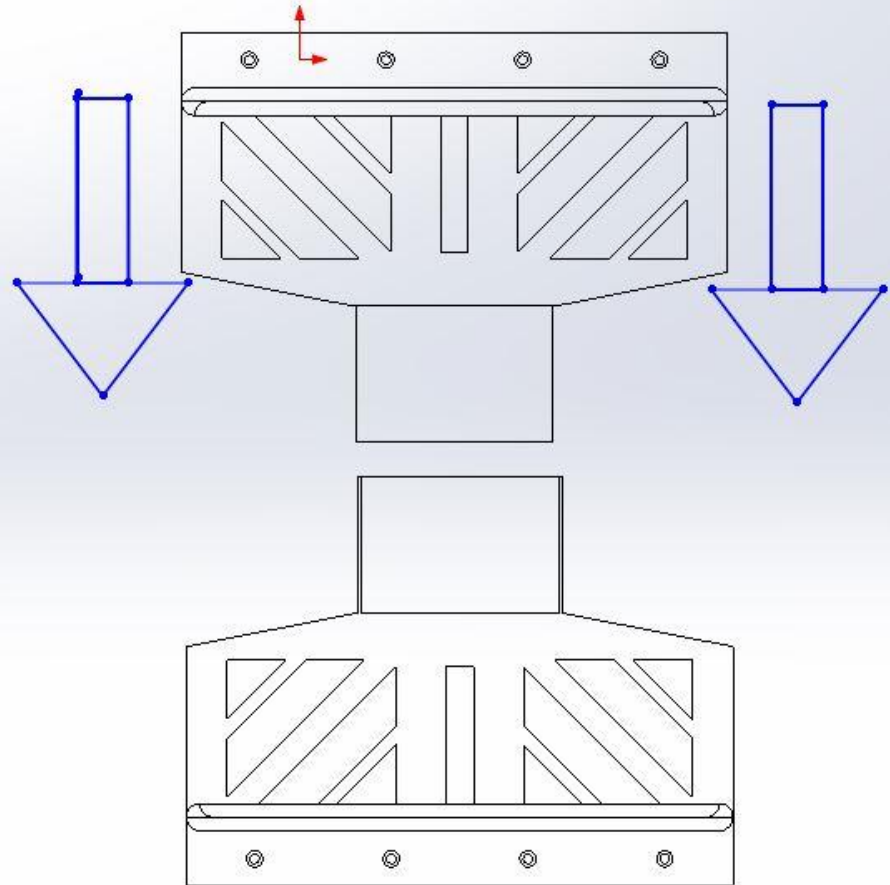
Procedures (1 of 2)



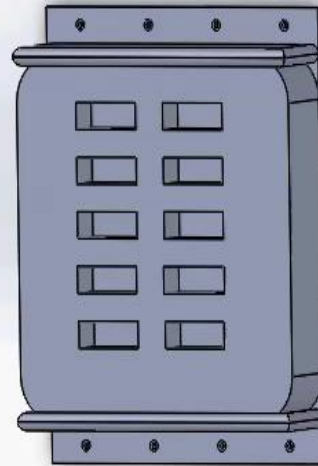
Procedures (2 of 2)



Results and Discussion



Conclusions and Recommendations



Closing

