TRANSMISSION CONTAINER FOR HMMWV
DESIGN AND DEVELOPMENT OF INTERNAL MOUNTING SYSTEM

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**Project Summary**

- Create an internal mounting system for HMMWV transmission containers that is:
  - Low Cost
  - Durable
  - Simple
  - Adaptable
- Previous Versions were created that met all needs but were too expensive
- 4 different variations of transmission exist that must all be compatible with a single design

**Project Background**

- What is TransContainer?
  - Composite container for High Mobility Multi-Wheeled Vehicle Transmissions
  - Provides a dry, consistent, and shock-resistant environment for the parts to be shipped all over the world, and back to the USA for repairs and deployment

**My Solution**

- Contoured inserts that fit over the outside of the transmission and constrain it in all directions
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**Implementation**

- Molding clay was used to copy the outer contours of the transmission
- Plywood was used to test the contour’s fitment, since foam is expensive and in short supply
- Finally the contour was cutout of foam material to be wrapped in fiberglass and infused

**Testing**

- Drop and impact testing will be performed, including side and corner impacts
- Testing will be the determining factor in which internal mounting system will be used in the final design

**Above and Beyond**

- Could be made into a universal container
- Constructing Inserts contoured to hold different parts allows anything to be securely shipped in one container

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