**Opportunity and Significance**

Many less fortunate countries cannot afford pricey medical devices. This will give people the chance to buy a cheap, yet robust, dual function stretcher.

**Technical Objectives**

- An emergency patient transport system for developing countries.
- Design a low cost, lightweight but strong stretcher to carry a person up to 70 kg to transport patients once they are delivered to health clinic or hospitals. Conventional stretchers in US are relatively expensive.

**Commercialization Plan & Partners**

We plan to work and connect with hospitals and companies that would be interested in affordable medical devices and also organizations involved with helping developing countries.

One organization in particular would be the Red Cross. We would also like to connect with “shark” Mark Cuban because he is well connected with many corporations.

The main steps and hurdles we will encounter will be finding an investor who is willing to go through this journey with us. Once we present our idea, we feel optimistic that it will be given the green light.

**Technical Approach, Accomplishments and Results**

We picked the original topic of creating a stretcher because we thought that this would be an interesting piece to create. We wanted to go above and beyond, so we decided to blow our objective out of the water.

Instead of creating a stretcher, why not create a stretcher/gurney that could serve multiple purposes. We thought to make a lightweight, low cost, strong, compactable, duel stretcher/gurney. We felt that developing countries didn't have the money to spend on multiple items, which is why we wanted to combine the two.

The top part (stretcher) is detachable from the bottom (wheel-bed) incase the patient needs to be transported in certain harsh scenarios. Also both parts are compactable for easy transportation.

We are excited to present our project because of its innovation, originality, and working ability.

**Next Steps for Development and Test**

Once our prototype is finished, we are going to run tests based on our DVP&R to see if our product is up to specifications. When we feel comfortable about the design ideas, we will continue with the stream of development phases regarding our product development. We will also keep in mind of future derivatives that could go with this product incase we ever see room for improvement.

**Acknowledgement**

We would like to thank our professor, Golem Newaz, for teaching and guiding us to understand what was needed for designing a project in the real world.

We would also Like to thank Bassam Kas-Mikha for putting in multiple hours to help us conceptualize and design our prototype.

**Conclusion**

Our product is up to standards of how we have planned on the design to be. We still have slight work to do to the prototype, but the key components are there. We feel as though this idea will work great in developing countries that could use something lightweight, compactable, strong, and inexpensive for emergency situations.

**Sponsorship/funding**

A thank you to Wayne State University for giving us the funds needed to supply us with materials for our senior design project.