

Team Name: "Bed, Back and Beyond"

Project Title: Accessible Power-Assist Hospital Bed Back Angle Controller

Angela Baltz                      Chris Heintzelman

Robert MacArthur              Magdalen Obiefule

Current Status:

- Thus far we have met all deadlines set by our team and the instructor. We are on track to successfully complete the preliminary requirements for our project.

Work Completed:

- Letter of Intent
- Team Name

Current Work:

- Feasibility Study
  - Divided up the various aspects of the study and began researching our respective topics
- Determining the best design for the power-assisted controller (joystick, button, or throttle approach)
- Researching electrical components needed including a microprocessor and actuators
- Researching materials used to fabricate hospital beds

Future Work:

- Planning a trip to a hospital and medical device company to observe power-assisted hospital beds and its respective components
- Ordering parts (before Thanksgiving break)
- Developing the Proposal

References/Attachments:

- The following article is a possible reference for our project regarding a low-cost, single-axis, force-feedback joystick: [http://www-cdr.stanford.edu/Touch/publications/richard\\_asee00.pdf#search=%22Feeling%20is%20Believing%3A%20Using%20a%20Force-Feedback%20Joystick%22](http://www-cdr.stanford.edu/Touch/publications/richard_asee00.pdf#search=%22Feeling%20is%20Believing%3A%20Using%20a%20Force-Feedback%20Joystick%22)