

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 our project.

Work Completed:

- We received our clinometer from Schaevitz

Current Work:

- Chris met with Dr. Mallik about testing the actuator and he said we need to obtain a power cord from Dale, the facilities services manager from SLU hospital
- Magdalen contacted Hill-Rom about obtaining a user’s manual for the actuator and they told her we need the bed model that the actuator came from
- Magdalen and I went to SLU hospital to try and get a cord and the respective bed model. Dale was not there
- Angie is working on configuring the servo motors to the joystick and Chris is continuing to work on programming

Future Work:

- We are going to try and obtain an entire hospital bed or a stretcher so we can begin bed fabrication
- We obtained a patent # for the bed and possibly a bed model (not sure if it is the hospital’s rubric or the company’s). We are going to contact Hill-Rom with the information and obtain a user’s manual
- Chris will continue programming
- Angie will continue to integrate the servo motors with the joystick