

Reporting Period: February 22, 2007 – March 8, 2007

Primary Author: Robert MacArthur

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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 new clinometer (Ratio Metric output) from Schaevitz and sent
- back the old one (Digital output)
- Obtained hospital bed and took apart mother board to gather necessary wires for
- actuator which we will then hook up to our micro
- Figured out a simple design for configuring servo motors to joystick

Current Work:

- Chris is continuing to work on the programming for our new clinometer (almost
- complete)
- Angie is gathering materials for servo motor/joystick fabrication
- Magdalen is working on the website and typing the text needed for each link
- I am researching how to make our actuator work at variable speeds and started
- typing up the final design report. I am also looking into buying an attachment for
- our joystick handle to make it more ergonomic

Future Work:

- Need to obtain a bed mattress and maybe a mannequin to simulate patient model
- Complete website
- Determine variable speed for actuator
- Begin work on Final Design Report
- Begin work on Poster