Week 7 Progress Report
Freely Adjustable and Accessible Keyboard and Mouse Pad for Client with Cerebral Palsy

Team # 6
Nolan Skop
Stephen Heussler
Team Update

- Meeting on Wednesday
  - Pleased with progress of keyboard
  - Decided upon five row design
  - Made few changes to layout
    - Larger “Caps Lock”
    - Minor key position alterations
Team Update (cont’d)

Figure 1. Key Layout
Work Completed

- Continued progress on control board programming
- PCB Layout Including Connections
Work Completed (cont’d)

- PCB Design
  - Visio to take relative key measurements for layout
  - Layout for keys completed
  - Wiring of Rows and Columns using both layers
  - Insertion of LEDs and LED resistors
    - Wiring problem
    - Solved by inserted small filled circles
      - Connection between two wiring layers
Work Completed (cont’d)

Figure 2. PCB Design
Work Completed (cont’d)

- Programming of Control Board
  - Nolan making progress
  - Set back by CPU malfunction
  - Completion within one to two weeks
Future Work

- Finish PCB, double check, and have it ordered
- Finish Programming of Control Board
- Begin cutting of PCB
- Mansfield Supply for hinges, locking mechanism, rubber bottom
Project Review

- Final design decided upon
- Programming near completion
- PCB design near completion
- Making sure PCB is correct is essential
Hours Worked

- Stephen Heussler
  ~12 hours

- Nolan Skop
  ~12 hours