Engineering 90 Topic Selection Memo

Heather Jones
Lauren Stadler

We propose to build a haptically enhanced mouse for the visually impaired computer user. This device will include a brake to indicate when the pointer has reached the edge of the screen and a motor and/or speaker to provide tactile/audio feedback about features on the screen. Ideally, we would like our mouse to connect through the USB port and work on a Windows operating system, in order to be practical for the average user without requiring the purchase of additional hardware or operating systems. This project will involve building and wiring the mouse itself, as well as programming control for the brake and motor and writing a driver that will allow the mouse to interface with the computer. We will be working with Professor Cheever.