The Mission

Our clients experience chronic pain. The chairs used while working at their workstation position them too far away from the monitor to view it properly. They are also forced to sit the keyboard on their lap to type, which is also painful. Our clients ask for their monitor to be brought to a more comfortable viewing position, and they want a way to support the keyboard in a comfortable position. They also express an interest in making the printer and CPU easier to access.

During the project, we face a few constraints and limitations that include — limited finances ($500 working capital), limited available space, existing workstation components, and client mobility.

While staying within the imposed constraints, the KPRS designs a comfortable workstation for our clients that solve the problems inherent in the current workstation.

The Solution

After careful consideration of the constraints set upon us, the KPRS decided to take a modular approach in helping clients. After much deliberation, we agreed upon a three-piece system to solve the problem. The system consists of a wall-mounted stand which brings the monitor closer to our clients, an adjustable wall-mounted keyboard stand that prevents the keyboard from resting on the client’s lap, and a smaller filing cabinet to replace the current desk and hold the printer. Additionally, we chose to move her CPU out from under the current desk. Instead we placed it beside the chair on the right hand side to provide access while reclining.

Killer Robot Prevention Squad

"We keep robots like this away from your loved ones"

Members
Jason Gmyrek
Sylvester Johnson
Joel Springer
Dorcas Williams

Integration

Finally, we integrate the three components into a finalized solution. The monitor and keyboard stand mount on the wall to the left of the client. The cart sits to the right, against the couch, in place of the table. Schematics of the design can be found on our webpage, www.geocities.com/jspringl1_2000/krps/krps. The first schematic shows the keyboard stand alone and its range of motion. The second schematic illustrates the monitor stand’s range of motion. The third schematic shows both keyboard and monitor in their most likely operating positions. By clicking on any of the schematics, you can open up a full size picture.