

CMU 2010 FY08 Annual Report

Towards 2010: Exploration of design issues that interface with the human body

Project Title:

Tanya Domina

Project Leader:

200822

Project Number:

5/28/08

Date of Report:

Refer to your **Outcome Evaluation Worksheet** to complete the information below. Insert additional rows if needed. Rows will automatically expand as you type. You are welcome to attach additional documents to supplement – but **not** substitute for - the information provided below.

| | Outcome/Milestone | Status (Complete, in Progress, or Not started) | Date Measured | What are the next steps to achieving this outcome? |
|----------|---|--|----------------------|--|
| 1 | Recruiting personnel: Lab director Undergraduate students Graduate student | C C N | 5/23/08 | We did not have a graduate student available who met our research needs. Will hire two graduate students for the 08-09 academic year |
| 2 | Garment testing | C | 5/23/08 | |
| 3 | Build thermal database | P | 5/23/08 | This is an on-going process that will continue throughout this project. Currently, there are 474 subjects in the database. |
| 4 | Begin 2D/3D Mapping process | C | 5/23/08 | |

What are your plans for sustaining support for your project beyond the CMU 2010 funding period?

Internal support includes new equipment acquisition from Dean of CST, industry funded research and external grants, providing data mining services for apparel companies, using our resources to solve functional design problems.

How can the ISPC assist you with those plans?

Memo

To: 2010 Committee

From: Tanya Domina, Exploration of Design Issues, project leader

Date: June 4, 2008

Re: Request for carry forward of funds remaining for 2007-2008 project period for project 200822, Exploration of design issues that interface with the human body

We request that the funds remaining in the Exploration of Design Issues internal order for 2007-2008 be carried forward for use in the 2008-2009 project period. We estimate these funds to be \$12,361, based on current expenditures in SAP.

Originally this money was designated toward the hiring of one graduate student to assist with this project. Because the M.S. in Apparel Merchandising & Design was new, we did not have a graduate student with skills and interests that matched our research needs. For the 2008-09 project year, per the original budget, we will hire two graduate students to work with the research team. We believe that the two graduate students and four undergraduates that the budget allows for will be sufficient to assist the faculty with their research efforts.

We are requesting that the \$12,361 be shifted to a new line item that will allow us to build a permanent room or structure around the body scanner as well as a dressing room. In order to get good quality body scans, light must be kept out of the scan area. Currently, we are using curtains and turning the lab lights off. While this helps to reduce the amount of light interfering with scanning, it is not an ideal solution. A room constructed around the scanner would result in much better body scans, allow more privacy to the subject and would provide interior lighting as the subject steps on and off the scanning platform. This is especially important to our elderly subjects who cannot see well in low light environments. Additionally, the constructed room would protect the pillars that contain the cameras and laser lights from accidental bumping that occurs when lab furniture or equipment are moved around in the lab or personnel bump into the scanner. The money would also be used to build a dressing room that is attached directly to the body scanner room. Currently, our subjects change in a closet that is filled with metal shelves and is used to store duck tape and other engineering lab supplies. Additionally, after undressing, the subject must leave the closet and cross the lab to the body scanner. A dressing room attached to the body scanner would solve these problems, would be more comfortable to our subjects and would look more professional to our corporate clients.

Please feel free to contact me at Tanya.domina@cmich.edu or 774-5587 for more information or if you have further questions regarding this request.