

Progress Report Week 8-9: Week of February 12th to March 25th 2008

Device to Assist in Removal of Pills from Bubble Wrapped Packaging

Client: Dr. Molly Carnes MD, MS, Professor, UW Center for Women's Health Research
Advisor: Professor Brenda Ogle, Ph.D.
Team: Benjamin Engel, Leader
Ryan Carroll, Communicator
Eric Printz, BWIG
Justin Schmidt, BSAC

Problem Statement

Patient safety issues involving the improper use of medication has lead to packaging of over the counter drugs that is increasingly difficult to access. This type of packaging is referred to as blister pack or bubble wrap style packaging and it is especially challenging for elderly patients with decreased hand strength or others with hand weaknesses or deformities. These difficulties lead struggling patients to alternative access methods that are often dangerous. It has been proposed to design a device capable of aiding patients in the removal of over-the-counter medication from bubble wrap style packaging.

Week 8-9 Goals

- Purchase parts (plastic for base, sheet metal for platform, hardware, blades)
- Begin looking into fabrication of customized t-brackets

Week 8-9 Activities

Team Member	Accomplishments	Hours	Running Total (Hours)
Benjamin Engel	Discussed materials via phone with Justin, purchased hardware	1	23
Ryan Carroll	Purchased hardware	.5	21
Justin Schmidt	Purchased material, purchased hardware	1.5	23
Eric Printz	purchased hardware	.5	21

Week 8-9 Accomplishments

- Purchased materials including plastic for box creation, sheet metal for platform and bracket construction, and hardware

Week 10 Goals

- Fabricate custom T-brackets

- Begin construction of box

Schedule

	Scheduled
	Completed

	1/23	1/30	2/6	2/13	2/20	2/27	3/5	3/12	3/19	3/26	4/2	4/9	4/16	4/23	4/30	5/7
Propose project																
Conduct background research																
Discuss parameters w/ client																
Develop PDS																
Brainstorm design ideas																
Design alternatives/matrix																
Midsemester presentation																
Midsemester paper																
Finalize design ideas																
Order materials																
Construct prototype																
Test prototype																
Plan final poster presentation																
Write final paper																
Final advisor meeting																

Project Difficulties

- No new difficulties this week aside from spring break

Expenses:

Part	Distributor	Cost
Sugatsune AR2-100 ball bearing drawer slide (2)	Alema Inc. www.alema.com	\$39.46
Acrylic plastic sheet (18" by 36" by 3/8")	West Bend Glass	\$21.00
Metal sheet (8" by 30 " by 1/8")	Neu's Hardware	\$12.00
Metal sheet (18" by 24 " by 1/32")	Neu's Hardware	\$8.00
Hardware (screws washers and nuts)	Ace Hardware	\$6.32