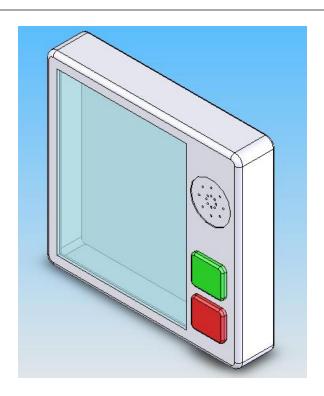
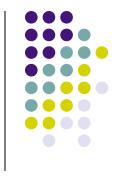
# SoloShower





### Market Research



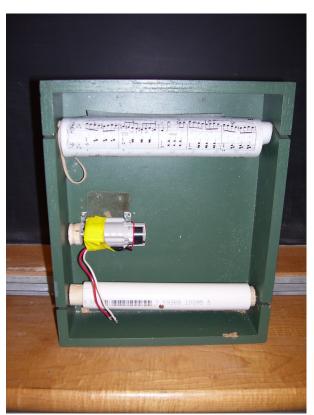
- Presented customer two different concepts:
  - Matrix of pictures lit up individually
  - Single pictures scrolling one by one
- What we learned:
  - Customer preferred scrolling concept better
  - Asked for rewind functionality













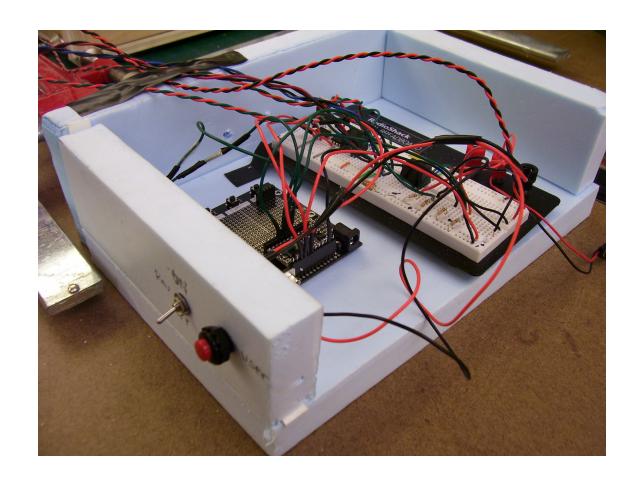
Revision A

Revision B

Revision C







## What We Learned



- Scrolling Mechanics:
  - Maintaining tension with twin rollers is difficult
  - Spring-loaded winder mechanism permits forward & backward scrolling while maintaining tension
  - Scroll alignment is difficult

## What We Learned



- Programming & Motors:
  - Programmability, motor control and optical interruption are all feasible
- Revised Power Calculations:
  - Peak power of < 5 Watts</li>
  - Average power of ~1.5 Watts
  - ~100 fifteen-minute showers possible with two Dcell batteries

## What's Next



#### Electronics:

 Implement instructor interface to allow specific steps to be skipped

#### • Mechanical:

- Work on rewind function
- Design waterproof housing
- Look into form factors that allow for changing of scrolls

## Thank You

Please come see us in Pappalardo for questions!

