The Product

- Problem: people forget important items at home
- Alerts the user to remember these items
- Keeps track of where they are
- Can view items on a mat in any room

Purple A
Demonstration
Demonstration
Model

Photosensors:
- Grid of four embedded on top
- No minimum weight
- Threshold value of light

Contact switches:
- Grid of four
- Detect heavier objects
- Wide proximity range of detection

Controlled with Arduino
Customer Needs

Organized people still need reminders to help them get out the door faster.

People want the system to blend in

Commonly forgotten: lunch, pset, packages to mail, keys

Current methods: writing notes/lists, leaving things in strategic places

"even if I gather my stuff together, I still leave without it"

Purple A
Competition

Other products:
- Medication-reminding devices
  - Must be pre-programmed with specific schedule
  - Limited to medications
- Other light sensor arrays exist
  - Primarily used for capturing images and video

Our Product
- Detects any item placed on mat
- Continuous detection, unscheduled

Purple A
Next Steps

- More complete grid of sensors
- Increase sensitivity
- Provide details about forgotten items
- Using IR photoresistors instead of visible light to eliminate the need for a visible light source
- Improve industrial design