2017

Sinatra Living: ADA Consultant Meeting Presentation

University of Nevada, Las Vegas. Solar Decathlon Team.

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A house is more than just a shelter; that it is a way of improving your way of life.

William Krisel
Way finding + Passive exercise  The home provides simple circulation paths that encourage movement, improving the health of the resident by increasing their level of physical activity. The open floor plan allows for clear lines of sight and ease of orientation.

Project Program

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Bed</td>
<td>194 SF</td>
</tr>
<tr>
<td>02</td>
<td>Bath</td>
<td>124 SF</td>
</tr>
<tr>
<td>03</td>
<td>Kitchen</td>
<td>296 SF</td>
</tr>
<tr>
<td>04</td>
<td>Living</td>
<td>141 SF</td>
</tr>
<tr>
<td>05</td>
<td>Office</td>
<td>97 SF</td>
</tr>
<tr>
<td>06</td>
<td>Mechanical</td>
<td>38 SF</td>
</tr>
</tbody>
</table>
the Elements.

01 master security system
  centralized hub for smart lock control

02 automated smart locks
  added security
  ease of nightly lock up

03 learning thermostat
  central location
  adjusts to users patterns

04 floor/roof sensors
  sense occupant activity
  fall detection

05 health monitoring
  blood pressure
  blood sugar

06 smart TV
  family communication
  control center

07 smart appliances
  energy savings
  communicate with home

08 sleep monitoring
  track respiration and sleep cycles
Principles of aging in place design

The design of the interior environment and architecture consists of several principles in which evidence-based design research comes to fruition. Environments which integrate proper orientation for the user, operate autonomously in daily activities, provide intellectual and sensory stimulation, security, and balance private and social spaces are ideal for the aging individual. These principles create interior environments for true independent living and successful aging.

1 facilitating orientation
Priming the user with appropriate visibility through fenestrations of the building is a primary component to facilitate orientation.

2 autonomy
The project allows for autonomy in spaces where mobility may be most difficult for an older person, such as the kitchen, bath, and living space.

3 intellectual + sensory stimulation
The design provides spaces for multipurpose activities and consequently a sense of novelty and variety throughout the day. It is a high priority to create variety in multipurpose spaces, as it is a form of intellectual and sensory stimulation.

4 providing a safe and secure environment
The interior environment is nestled within a sequence of transparent and opaque partitions to create a comfortable enclosure for privacy and security. The sequence of partitions allow for transparency and privacy in appropriate spaces.

5 between private + social
The home is divided into social and private modules. Both modules allow for generous outdoor exposure and semi-visibility to the adjacent spaces to retain way-finding abilities.
Q + A