**Problem Statement:** To build a one-fifth scale model of the ISU Campanile-Carillon with 27 bells, fully functional, transportable and aesthetically identical.

**Customer Requirements**

- **Collapsibility**
  - Collapsed 6.5 ft.
  - Extended 20 ft.

- **Stability**
  - Withstand 50 mph wind gust
  - Support façade and spire

- **Setup Time**
  - 30 minutes for 1-2 people

- **Playability**
  - Replicate feel of the Stanton Memorial Carillon

- **Portability**
  - Electric Pallet Jack, Custom Trailer

**Improvements**

- Updated scissor lift dimensions
  - Permanently attached
  - 4 ft. x 4 ft. x 10.5 in.
  - Electric Actuator for lifting Center Section Bell Tower
  - Reduced height
  - Rearranged Bells
  - Added outriggers

- Updated wind calculations

- Updated Spire design

- Finalized transportation

**Estimated Cost**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COST</th>
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</thead>
<tbody>
<tr>
<td>Bell</td>
<td>$145,000</td>
</tr>
<tr>
<td>Trailer, Pallet Jack, &amp; Base</td>
<td>$20,000</td>
</tr>
<tr>
<td>Exterior Cladding</td>
<td>$25,000</td>
</tr>
<tr>
<td>Documentary Display</td>
<td>$20,000</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$210,000</strong></td>
</tr>
</tbody>
</table>

24 of 27 Bells Fully Funded Already!

**Final Design**

This poster has been approved for public display by Dr. Tam, Department of Music and Theatre.