Design Exercise I

Suppose we are to give out an award for excellence in software design. Create a design for a statue that we would actually give to the recipient of the award...

...and be able to explain its meaning...

...in 10 minutes...

...and money is no object.
<table>
<thead>
<tr>
<th>Team</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team One</td>
<td>BACUETES, JAY, CACHO, LANCE, CHISLOM, ALTON, CURTIS, CHAD, DEMPSEY, MITCHELL, VILLAMARZO, JOSHUA</td>
</tr>
<tr>
<td>Team Two</td>
<td>DITCH, SCOTT, DOAN, ALEXANDER, DUNCAN, ROBERT, DYKZEUL, BRADLEY, FRITZ, MATTHEW, SHIGEKAWA, MATTHEW</td>
</tr>
<tr>
<td>Team Three</td>
<td>GASKILL, JEFFREY, HUANG, ALLEN, JOLLY, ROBERT, KAHN, BENJAMIN, KAISER, ALEXANDER</td>
</tr>
<tr>
<td>Team Four</td>
<td>LEE, DEREK, LIU, LESLIE, LIU, ZHE SU, MILEWSKI, JAMES, MORGAN, DANIEL, VILLANUEVA, AYLWIN</td>
</tr>
<tr>
<td>Team Five</td>
<td>ROEDER, SCOTT, ROSE, JAMES, RUIZ LOPEZ, TOMAS, SCHRAMM, DAVID, SINCLAIR, JORDAN T., ZEPEDA, LANCE</td>
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</tbody>
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Reflection

- How hard was it to think of the design for the statue?
- How hard was it to create the design for the statue?
- Could you express everything you wanted of your design?
Design Exercise II

- Each team should create a design for a bridge using a single set of Geomag magnetic sticks and balls.
- The bridge must span an 8 inch gap
- The bridge must be able to suspend a large can of Play-Doh at an arbitrary spot on the bridge.
- The cost of the bridge should be minimized. Each stick and each ball cost 1000 dollars.
Exercise II, cont’d.

- On Tuesday, bring a description of your design to class.
- This description must be text only. This is important. The description must be text only.
- Another team will build the bridge according to this design, and will have 20 minutes to do so.
- The design team and build team will not be able to communicate or clarify anything with each other.
- The designers and builders of the lowest cost bridge that spans 8 inches and supports the can of Play-Doh will win.
There will subsequently be a change --- The change may involve a change in price, maximum components available, the length required, or something else entirely.

The build team will need to improvise to address the change.

If you want to win as a design team, you should make your design as robust and flexible as possible.

BRING YOUR SET TO CLASS!