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ENGR130-01

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Project #1 ”Beeg Bueelding” Charter

The project we performed Monday had a couple of primary goals and several constraints.

The Objectives:

* Build a freestanding structure of maximum height
* Build said structure within limited time and allotted resources
* Structure must meet minimum stability requirements
* Leverage team strengths to outperform competition

The Constraints:

* Use only the resources provided
  + Provided resources
    - 8 in masking tape (only slightly sticky)
    - 5 sheets colored 8 ½ x 11in standard letter paper
    - 1 sheet colored 8 ½ x 11in standard paper w/ team names (for sketching and design ONLY)
* Complete construction within allotted time
  + Allotted time:
    - Approx. 50 min
* Building footprint
  + Building footprint must not exceed 60 in²
* Building must pass stability test
  + Stability test
    - Building must remain upright and freestanding for 10 min

The team experience was an integral part of this project, and as such I feel it necessary to note my perspective on the team dynamics aspect of the project.

My notes are as follows:

* The team worked well overall.
* We quickly formed a loose, informal hierarchy with one member coordinating design and implementation efforts.
* The initial design idea was mine, which I then solicited opinions and modifications on from my teammates.
* At each step in the design and build phase we discussed problems we perceived with the design and decided how to ameliorate them.
* One particular teammate did not contribute much to the actual design part, but instead worked as a resource manager, helping us maximize the effect of our limited resources.