EMCH 13: DESIGN PROJECT - Concept Plan

For Individual Concept Plans, complete this form, print your name only and attach to Team Plan. For the Team Concept Plan, combine ideas and reach a concensus, then complete this form and print all team member names; attach individual plans and turn in the packet.

Team:
Member(s):
Give mfg'r/model of one competing product:
Determine the primary load(s) to be supported:
List three major components to be designed (names must correspond to concept sketch): 1 2
3 Other
For each component listed, rank order key material properties important in their design, e.g., strength, stiffness, corrosion resistance, conductivity, thermal range, etc. Component 1.
Component 2
Component 3.
Other.
For each component listed, rank order three material choices which comply with the above property requirements: Component 1
Component 2
Component 3.
Other.
Draw a Concept Sketch (isometric or 3-D) of the design on the backside of this form. Cal out all components (Use the client's names). If call-outs are numbers, add a parts list.
What is your next task?
Comments, questions or concerns:

Concept Sketch. This sketch is your early concept. It should be a three-dimensional isometric. Its purpose is to guide the design before the drawings are completed and it serves as a simplified sketch for all team members to refer to. Use it to assign tasks, as a reference to parts and their names in forming models and doing the corresponding analyses. For a consistent, organized design process, every team member should have a copy. Components need not be detailed nor presented 'as finished', but all of them should appear and be called out. Revisions must be supplied to everyone.