PSU Architecture 2

Overview
The purpose of this project is to improve the manufacturability of a previously designed kiosk that is to signify laboratories that are part of the DIGI-NET on Pennsylvania State’s campus. Adaptations to the material choices, fabrication techniques, and assembly method may be made so long as the overall appearance of the kiosk is maintained.

Objectives
The goal is to keep the product costs of one kiosk to under $500. The team is expected to create an exact prototype of the improved kiosk as well as the assembly instructions and associated drawing files.

Approach
- The group first met with the project sponsor to gather information regarding the requirements for the project.
- The group then brainstormed and researched new fabrication methods and materials that could be used to meet the requirements of the project.
- Looking the research that was carried out, the group was able to narrow down the materials to further discuss the best option for the final kiosk.
- The group performed experiments to ensure that a seamless connection could be obtained with the resources that were available in the labs.
- Then CAD models and cutting files were made to cut the sides and the metal for the kiosk.
- A half-scaled model was then generated to fix problems that were present before moving onto the full size prototype.
- The group then generated a full size prototype that was painted and had all the final components that were necessary.

Outcomes
Finally, list the outcomes for this project making sure to clearly convey their implications for the sponsoring company:
- It will cost the sponsor approximately $320 to replicate a kiosk excluding the computer system.
- The manufacturing and assembly time for a kiosk is approximately 6.27 hours.