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Mechanical Engineering

ME 415 Section 2 - Team D23

Customer Requirements:

The following points were identified as essential to customer satisfaction.

- Portable
- Easy assembly
- Aesthetically identical
- Durable



Design:

Though many parts had been designed during previous semesters, the last of the parts were designed this Fall. These parts include the following:

- Panel Structures
- Upper Detail Elements
- Spire Mounting Mechanisms
- Iowa State University Plaque
- Hat Attachments



Manufacturing:

Many parts were manufactured this semester with the help of Boyd Lab, AER E Department, and ISU Theatre. Parts finished this semester include the following:

- Roof Frame
- Roof Panel
- Lower Arch Section
- Additional Support Grooves
- Spires
- Various Detail Elements



Assembly:

Assembly for the Gala Concert took place in CY Stephens Auditorium during the week of October 20th. All façade and scissor lift parts were moved from the Lab of Mechanics and Hoover Hall, while the bells themselves were moved from Applied Sciences 4.



Future Considerations:

Though much progress has been made there is still more to be done. Future teams will need to consider the following:

- Method of transportation
- Protection of the façade panels
- Finishing touches on the bell section