Identify problem

- * I described the exact problem clearly, including a need and a client or market.
- * My description of the problem includes information about the background, context, or setting for the problem.

Understand

- * I listed a set of design requirements (for example: The device must operate correctly more than 90% of the time.).
- * I indicated the date on which each design requirement was added to the list.
- * I included a source for each design requirement, such as a client, user, background research, or test results.

Ideate

- * I sketched multiple potential solutions.
- * My sketches provided enough details to show each of my designs. (e.g.: labeling key parts or features)

Evaluate

- * I decided if each of my possible solutions might meet the design requirements.
- * I described what is good and bad about each design.
- * I described why the design solution I chose was the best one to try based on the requirements.

Prototype and Testing

- * I created detailed drawings for my solution.
- * Where possible, I created computer models for the solution.
- * I built a physical model of my solution.
- * I tested my design to show that it meets all of the design requirements.

Iteration

- * I made improvements to my design through an iterative design process.
- * I wrote a reflections about my experience working through the design process.

- * My reflection describes the decisions I made and why I made them.
- * My reflection describes what I would do differently if I tried to address the problem again, or how I would proceed with improving my solution given more time to do so.

Progression

- * I reviewed my Engineering design log to make sure I included relevant documentation of each stage of the design process.
- * My portfolio provides enough detail to guide someone else in following my design process.
- * My portfolio indicates that I followed a true engineering design process driven by customer needs and requirements, and that multiple solutions were considered and improved throughout the process.

Communicate your Solution

- * My presentation communicates my design or solution clearly, including models, renderings, and prototypes as appropriate (more than one item from this list required for 4 or 5).
- * My presentation data from multiple sources.
- * I made eye contact with the audience during my presentation.
- * All of my team members participated in the presentation.