**The steps used in the creation of design project should be described in sufficient detail so that others may duplicate this work. Drawings and/or photographs are appropriate if they enhance or clarify the explanation. Follow the steps below:**

Establish Design ***Criteria***

* Decide what features your design *must* have, for example: size, weight, cost, performance, power, etc. Perhaps include a table showing how each design criterion will be addressed by a feature of the product being designed.

Prepare a Preliminary Design

* Engineering projects should include a block diagram or sketch of the design that shows all of the parts or subsystems of the design. Describe how all of the parts of the design will need to work together. Computer science and mathematics projects
* Build and Test a Prototype. When others are conducting their experiment, investigators doing engineering, projects should be building and/or testing a prototype of their best design. You should involve targeted users in your testing to get feedback on your design, if possible.
* Demonstrate that the design meets each of the design criteria established at the beginning of the project. What needs to be changed and retested? Test results may be included in tables, if applicable. Data analysis may also be a part of this step.