# Defining the Problem

**A. Description of Problem, Need or Value**

* What are the problems and/or needs that justify the project?
* Describe the target population — who specifically experiences this problem or need?
* Provide some statistical data to back up the need for your product.

**B. Overview of the Design Team**

* How does this product relate to you/what connection do you have to the product?

**C. Overview of Proposed Project**

* What is the basic purpose of the project?
* Who will benefit from it? Describe the geographic area and population to be served.
* How is this project unique? For example, is it similar to other projects but designed for a different target population? Does it employ a new approach?
* What similar products are available?

**D. Project Requirements and Constraints**

* What design criteria/constraints apply to your product?

**E. Manufacturing and Production**

* Describe the manufacturing process related to your product? (mass production/custom/etc)
* What type of materials would be needed to carry out your idea?
* What discipline(s) of engineering align with your product?

**F. Outcomes**

* What immediate and long-range results are expected?
* Will these results change people’s lives, the educational community and/or the world?

**G. Evaluation**

* By what criteria will the success or failure of this project be measured?
* What techniques or tools will be used to evaluate?