Constraints involve the limits of variables that create the product. These values are only what is needed to accomplish what is specified by the client.

Functionality:

* The light wand length should be between 30 - 50cm so someone can clearly see from up to 50 feet away.
* Should have a timer that the user can set
* A wide and/or heavy base to prevent major wobble due to rotation
* Should have a moderate strength permanent magnets on the bottom of base to prevent sliding on a slightly slanted surface
* Light wand must have at least 30 LEDs to create a clear enough image
* Max amount of rotational wiggle room < 1cm
* There needs to be at least one microcontroller that controls the powering of the LEDs

Economic:

* Total budget: $250

Energy:

* battery life:
  + 1 full hour run time
  + 4 months while not in use

Usability:

* Easy to assemble with light wand attaching to the base
* Needs to be able to fit in the average car trunk
* Should weigh less than 30 pounds
* Easy to carry for a short distance

Health and Safety:

* Light wand should not rotate at 960 - 1500 rpms to reduce chance of seizures
* Motor should quickly stop when something obstructs the rotation like a hand or ground after being tipped over

Operational:

* Must be able to run in temperatures ranging from 30 - 120 degrees Fahrenheit

Time:

* Must be built in 1 month