Team 2B final design: MayFlower

Our design is a snowflake like flash LED.

* 1. Our product is designed as the shape of regular hexagon. And the hexagon plate is covered with single-color LEDs with one multi-color LED in the center of the hexagon. The “bling bling mode” is designed for decoration. When specific LEDs are lightened, we can get different shapes like snowflakes, sun, umbrella, lightening, characters and so on.

Mode1: different snowflakes will be lightened one by one as a circle.

Mode2: LEDs could light in 26 characters, different characters are lighted in different order to compose some words like “hi” ”welcome”.

Mode 3: “weather flag”. Choose different weather flags to inform other people about the weather. For example, choose “sun” shinning mode, it means that it’s a sunny today. At the same time, the multi-color LED can light in different colors to mention the temperature. If it’s hot, it will light in red.

* 2. As there are lots of LEDs laying on the hexagon and our design is portable, another function of MayFlower is designed to be "Code Model". We use our LEDs to express some important signals. For instance, we can express SOS by lighting our LEDs three times for 1 second and three times for 0.5 seconds.
* 3. The LEDs can light similar to the appearance of clock. LEDs at the edge of hexagon will light one by one(per second) until LEDs of the first round of hexagon all lighted(per min) Then the second round will lit the same way as first round .This step will keep going if there is still some LEDs unlighted. Once all LEDs are lighted, they will go out together and run the steps above again as a cycle.
* 4. As the regular hexagon is centrosymmetric, we find that our MayFlower can take advantage of this physical property to rotate around the central axis. We can imagine that a rotating LED flashlight is definitely much more attractive than an immobile LED light. To accomplish this idea, we decide to make a smooth hollow rod to be assembled at the center as the rotating axis so that it will not only rotate but also can be easily attached to the wall or some other surface through the hollow part.

