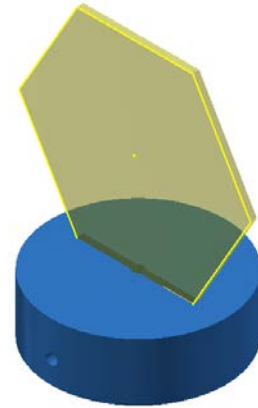


# CIM 2106: LED Sign Mass Production



**Client Company:** Dell Computers

**Designers:** Cazenovia HS CIM Classes



**Problem Statement:** Dell Computer Corporation has determined that it would like to do a “Give Away” promotion for a new line of laptops that they are coming out with next year.

**Design Statement:** Design a light up promotional sign that will work with the new laptops that can be customized. You will design the item from start to finish, and provide a prototype, cost analysis for mass production, a process flow chart, and all documentation including working drawings.

**Design Criteria:**

- Must be inexpensive: it’s a “Give Away”.
- Must be safe for consumers of all ages.
- Must work with the computer as a power source.
- Must light up and show different colors.
- Must be manufacturable in this classroom.
- Sign must be less than \_\_\_\_\_.
- Base must be less than \_\_\_\_\_.
- Parts must be toleranced to “force fit” together.

**Design Constraints:**

- Total Design time: 3 weeks
- Design & Inventor time: 1 week
- Manufacturing set up: 1 week
- Mass Production: 1 week.
- Base made on CNC machine
- Sign made on Laser cutter