# Xinyu Liu Lecture Assignment 1

1. A brief write-up
   1. The mechanical device I chose to take apart is my table lamp or more specifically its holding device.
   2. The lamp, which can be roughly divided into a tape light,the flexible support and the holding device.(There are still some small parts such as the switch and the charge port but they have little thing to do with the structure.)
   3. First, the tape light,with three-way-switch light in it, takes up the function of illumination.Second, with the help of the flexible support I can put the tape light in arbitrary direction and in quite a large range of position. Finally the lamp must have somewhere to hold on, so here comes the holding device. It consists of a screw, a nut, a spring and a white large pedestal. With such structure the lamp could hold tightly on many surfaces.
   4. I fail to reassemble the holding device. And this lamp can not work properly after my taking-apart. It is quite hard to adjust the spring to its initial position and state. I even doubt about whether I have lost some component. And I also try glue and tapes to fix it but all my efforts are in vain.
   5. I think in general this is a excellent design, after all it only cost about 6 dollar, but has rough all the functions a lamp needs. But it could be better if the non-slip mat is not pasted to the pedestal. Because the mat usually slide out of its orginal position. It might be better if the mat is inlaid in the pedestal.