Overview
This snowboard will encourage people of all ages to start snowboarding while keeping all of their electronics fully charged. The LED strands will light different colors according to the use of the snowboard.

How
Energy for this snowboard is produced by solar panels which charge four AA NiMH batteries. The energy of the batteries may discharge to either the USB Voltage Converter or LED Display, based upon the position of the User Operated Switch. Piezo Electric Generators are installed on the bindings. The energy of the Piezo Generators are feed through Window Voltage Comparators that will control switches for different LED colors.