**BopIt Fruit Spiral(s)**

The Bopit Fruit Spiral is a product created entirely by students with little adult supervision or help. The product demonstrates the use of the Arduino micro mini to create something creative and entertaining, and will raise awareness to the maker revolution. Each module of the spiral has the ability to generate sounds in response to touches of actual fruit, and has two modes-cooperative or solo. In the exhibit, we will have 3 modules of the Spiral, and people will be allowed to interact with the spirals to play either of the modes. To the side of the exhibit there will be a slideshow/PowerPoint with pictures and slides explaining the development and creation of the Fruit Spiral. The exhibit will be Valentine’s Day themed since the Exhibition is on Valentine’s Day.

Features

* 3 spirals holding fruits
* Coop mode
  + Three players
  + Continuous Stream of fruit names
  + Cooperative
  + Much like space team
* Solo
  + Similar to “Simon”- sequence of commands increases each round.
* Toggle switch between modes
* Visible electrical components inside a box
* LEDs for aesthetics
* Slide Show explaining invention process and how it works

Components

* Central hub(glass case with wires running from the components inside to the spirals)
* LEDs
* 3 separate modules(spirals with fruit) w/
  + 1 Arduino
  + 1 Vmusic
  + 1 Touch sensor
  + 4 Fruits per spiral
  + 1 Speaker