
Christmas Tree Lights

— By- Zakeya, Ramon, Kathryn,
Savanna —

Project Objective

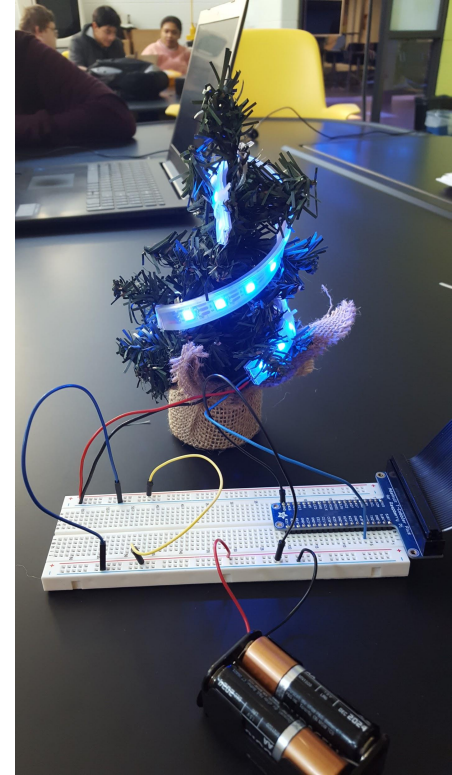
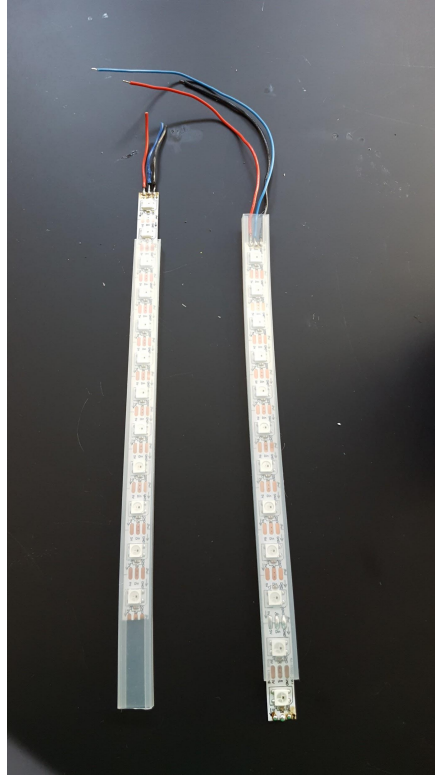
Sync LED light strips to a music file

Original Idea

We wanted to have a light up christmas tree. The tree would have both lights and music synced. We wanted to have at most three songs that would change at the press of a button.

Equipment Used

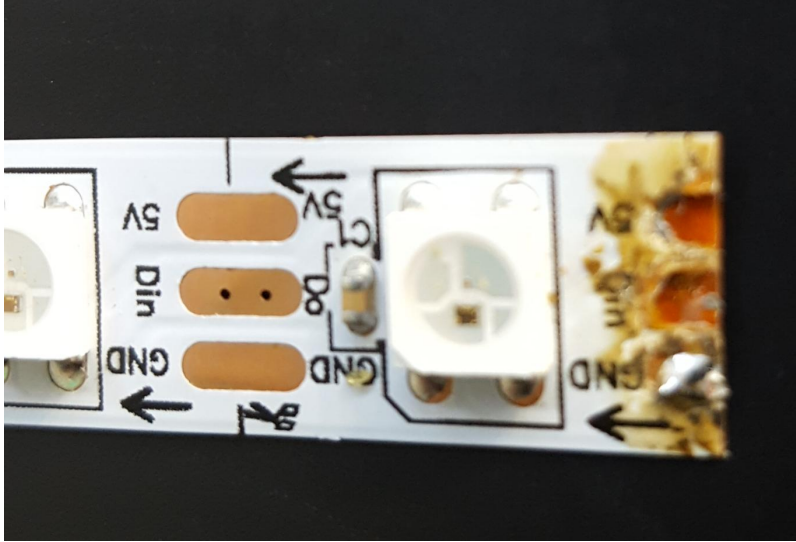
- Raspberry Pi
- LED Strip lights
- Breadboard
- Soldering wire and wand
- Tabletop Christmas Tree



Problems

- Code
- Soldering
- Syncing music with lights
- Finding time to work on it outside of class

Soldering



Solutions/ changes

- Changing the Solder used
- less songs
- Got rid of the button
- Use the C Prompt to run light programs instead of onboard Python IDE

What We Would Do Differently

- Started research into compatible music earlier
- Involved Professor Petkus in the coding issues earlier as well
- Use the 3D printer for our project
- Increase the amount of LED's

Demo