BlueStamp Engineering

Example of a Build Plan

After a student selects their project with their instructor, he or she must create a Bill of Materials (BOM) listing all of the parts required and write a Build Plan describing the main project. Below is an example of a build plan.

Name: Christopher Chen
Location: Palo Alto
Instructor: Laura Kambourian
Starter Project: #8, Mini POV
Main Project: Audio Visualizer
https://bluestampengineering.com/student-projects/christopher-c/

Major Steps to complete the project:

1. Gather all the materials and connect them together
2. Build the Stereo to Mono Circuit
3. Connect the Aux cord with the Circuit
4. Connect the Circuit with the Arduino and make sure it sends the right data
5. Connect the LED lights with the Arduino and test if it works. ***This is a milestone. Save all design files, record a video, and post to the website.***
6. Create full documentation, write a blog post describing the system, and post everything on your webpage.

Potential Modifications:

1. Color Scheme (Christmas Colors)
2.

(First Project)
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Name: Christopher Chen
Location: Palo Alto
Instructor: Laura Kambourian
Starter Project: #1, Minty Boost
Main Project:#255: **HIGH PERFORMANCE AUDIO MONITOR (A RGB MATRIX SPECTRUM ANALYZER)**
http://bluestampengineering.com/student-projects/turner-s/

Major Steps to complete the project:

7. Make sure all parts have arrived as planned
8. Connect the basic components together as shown in the examples.
9. Processing the audio, allowing it to show a graph off the audio matrix on computer. ***This is a milestone. Save all design files, record a video, and post to the website.***
10. Connect the Arduino with the LED matrix. Have a staff member check them.
11. Connect all of the components together allowing them to function together.
12. Start the coding of the arduino and make sure it works with the LED matrix ***This is a milestone. Save all design files, record a video, and post to the website.***
13. Create full documentation, write a blog post describing the system, and post everything on your webpage.

Potential Modifications:

3. Having the song name on the LED matrix
4. Solar based trigger. (dimness, adjusting colors)
5.