

BlueStamp Engineering

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: Sureena

Location: Palo Alto

Instructor: Leah

Starter Project: Light Organ

Main Project: #240 Wearable LED clothing

Major Steps to complete the project:

1. Make sure all parts have arrived as planned
2. Draw a plan, to see what the finished product will look like. It will also help me to see how to connect everything
3. Find out where I want to solder the LED's, and do it ***This is a milestone. Save all design files, record a video, and post to the website.***
4. Code the needed parts to connect all the parts together, and solder the microphone to the microcontroller.
5. Plug the battery into the microcontroller, and see if it works altogether. ***This is a milestone. Save all design files, record a video, and post to the website.***
6. Design the LED part of the skirt (or another object).
7. Put the eyelets into the skirt piece and solder the first LED onto the ground wire.
8. Solder more LED's, and put them in the skirt
9. Solder the data wire between the LED's.
10. Test My LED Strip. ***This is a milestone. Save all design files, record a video, and post to the website.***
11. Solder a wire onto the pins of the microphone.
12. Put the microphone onto the clothing piece using velcro strips. ***This is a milestone. Save all design files, record a video, and post to the website.***
13. Upload code and see it if works!
14. Create full documentation, write a blog post describing the system, and post everything on your webpage.

Potential Modifications:

1. Add another degree of freedom (base rotation).
2. Add an LED to illuminate what the gripper is looking at.