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: Kriselle Tanhueco Location: Palo Alto

Instructor: Laura Kambourian
Starter Project: #1, Minty Boost

Main Project: #310: 3D Printed Robotic Hand

http://bluestampengineering.com/student-projects/annabel-y/http://bluestampengineering.com/student-projects/sanjana-k/

Major Steps to complete the project:

- 1. Make sure all parts have arrived as planned.
- 2. Draw a schematic for the servos and flex sensors that shows every wire that will need to be connected.
- 3. Program Arduino to connect flex sensors to servos.
- 4. Use a breadboard and an Arduino Uno to wire the flex sensors to the servos. Test to make sure they work. *This is a milestone. Save all design files, record a video, and post to the website.*
- 5. Solder the flex sensor half of the circuit onto a PCB.
- 6. Sew the flex sensors onto the glove. Test to make sure the glove can control the servos. *This is a milestone. Save all design files, record a video, and post to the website.*
- 7. Assemble parts for hand. Use a file/sandpaper to clean it up.
- 8. Thread fishing line through fingers and connect to servo horns. Ensure that the system works as expected. *This is a milestone. Save all design files, record a video, and post to the website.*
- 9. Create full documentation, write a blog post describing the system, and post everything on your webpage.

Potential Modifications:

- 1. Paint hand for aesthetic purposes
- 2. Allow for wireless control of hand